

# Info Nortek S&T Security & Technology AS

|                                                    |               |                    |
|----------------------------------------------------|---------------|--------------------|
| Kort Beskrivelse:<br>Modbus Previdia brannvarsling |               |                    |
| Intern<br>Ja                                       | Ekstern<br>Ja | Dato<br>28.06.2022 |
| Utarbeidet av: Christopher Teigstad                | Godkjent av:  | Revisjon 001       |

## MODBUS

Med Previdia brannvarsling kan det leveres MODBUS TCP-IP eller MODBUS RTU.

MODBUS over TCP-IP er tilgjengelig både på Previdia MAX og Previdia Compact og hentes ut fra samme ethernet tilkobling som benyttes til programmering. For Previdia MAX finnes denne i FPMCPU modulen og for Previdia Compact finnes denne i sentralens UI modul. Det kreves da ingen tilleggsmoduler i sentralen. Standard port for MODBUS TCP-IP er 502. Når Ethernet kabelen tilkobles sentralen FPMCPU modul, vil den generere en singel Gratuitous ARP. I denne pakken er vil det være mulig å lese ut MAC-adressen.

MODBUS RTU baseres på RS485 standarden og finnes kun tilgjengelig på Previdia MAX sin FPMCPU modul, RS485-BMS port. Parameter er som følger

- BitRate: 115200
- DataBit: 8
- Parity: Peer
- Stop Bit: 1

Med MODBUS protokoll til et toppsystem er det mulig å overvåke og betjene brannsentralen, samt alle paneler i et HorNet nettverk. Hvert panel i et HorNet nettverk som skal implementeres over MODBUS konfigureres med sin unike MODBUS adresse. Om det ikke blir satt en MODBUS adresse på et panel, vil den ikke respondere på MODBUS kommandoer. Protokollen er da deaktivert for det gjeldene panelet.

Previdia brannsentralen gir følgende kommandoer over MODBUS:

- READ INPUT REGISTER
- WRITE SINGLE COIL

Med en enkel lesing er det maksimale lesbare register 125.

## Register

READ INPUT REGISTER kommandoene benyttes for prøvetaking av brannvarslingsanleggets status og status for de tilkoblede komponenter.

| Registers for Previdia Max control panels (use Modbus 0x04 command to read) |                                   |                        |                        |                        |                        |                         |                         |                         |                         |                        |                        |                        |                         |                        |                        |                        |                        |
|-----------------------------------------------------------------------------|-----------------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|
| Address                                                                     | Name                              | High byte              |                        |                        |                        |                         |                         |                         |                         | Low byte               |                        |                        |                         |                        |                        |                        |                        |
|                                                                             |                                   | Bit 7                  | Bit 6                  | Bit 5                  | Bit 4                  | Bit 3                   | Bit 2                   | Bit 1                   | Bit 0                   | Bit 7                  | Bit 6                  | Bit 5                  | Bit 4                   | Bit 3                  | Bit 2                  | Bit 1                  | Bit 0                  |
| 0                                                                           | Control panel details<br>Status 1 | Access with level 1-4  |                        |                        |                        | Buzzer Silenced         | Investigation           | Mute                    | Night mode              |                        |                        |                        | Disabled                | Fault                  | Early warning          | Pre-alarm              | Alarm                  |
| 1                                                                           | Control panel details<br>Status 2 |                        |                        |                        |                        |                         |                         | Fault on +24 RS485-2    | Fault on +24 RS485-1    |                        |                        |                        | Fault on ground (earth) | RT network             | Fault fault            | Low battery            | Fault fault            |
| 2                                                                           | Modules fault                     | Module fault IFMDIAL   | Module fault IFMNET    | Fault CPU emergency    | Module fault IFMLAN    | Module fault IFM16IO 4  | Module fault IFM16IO 3  | Module fault IFM16IO 2  | Module fault IFM16IO 1  | Module fault IFM2L 8   | Module fault IFM2L 7   | Module fault IFM2L 6   | Module fault IFM2L 5    | Module fault IFM2L 4   | Module fault IFM2L 3   | Module fault IFM2L 2   | Module fault IFM2L 1   |
| 3                                                                           | Module fault IFMEXT 1-16          | Module fault IFMEXT 16 | Module fault IFMEXT 15 | Module fault IFMEXT 14 | Module fault IFMEXT 13 | Module fault IFMEXT 12  | Module fault IFMEXT 11  | Module fault IFMEXT 10  | Module fault IFMEXT 9   | Module fault IFMEXT 8  | Module fault IFMEXT 7  | Module fault IFMEXT 6  | Module fault IFMEXT 5   | Module fault IFMEXT 4  | Module fault IFMEXT 3  | Module fault IFMEXT 2  | Module fault IFMEXT 1  |
| 4                                                                           | Module fault IFMEXT 17-24         |                        |                        |                        |                        |                         |                         |                         |                         | Module fault IFMEXT 24 | Module fault IFMEXT 23 | Module fault IFMEXT 22 | Module fault IFMEXT 21  | Module fault IFMEXT 20 | Module fault IFMEXT 19 | Module fault IFMEXT 18 | Module fault IFMEXT 17 |
| 5                                                                           | Module fault IFM4IO               | Module fault IFM4IO 16 | Module fault IFM4IO 15 | Module fault IFM4IO 14 | Module fault IFM4IO 13 | Module fault IFM4IO 12  | Module fault IFM4IO 11  | Module fault IFM4IO 10  | Module fault IFM4IO 9   | Module fault IFM4IO 8  | Module fault IFM4IO 7  | Module fault IFM4IO 6  | Module fault IFM4IO 5   | Module fault IFM4IO 4  | Module fault IFM4IO 3  | Module fault IFM4IO 2  | Module fault IFM4IO 1  |
| 6                                                                           | Fault modules fault               |                        |                        |                        |                        | Module fault IFM24160 4 | Module fault IFM24160 3 | Module fault IFM24160 2 | Module fault IFM24160 1 |                        | Module fault FPMLED 7  | Module fault FPMLED 6  | Module fault FPMLED 5   | Module fault FPMLED 4  | Module fault FPMLED 3  | Module fault FPMLED 2  | Module fault FPMLED 1  |
| 7                                                                           | Module fault IFM4R                | Module fault IFM4R 16  | Module fault IFM4R 15  | Module fault IFM4R 14  | Module fault IFM4R 13  | Module fault IFM4R 12   | Module fault IFM4R 11   | Module fault IFM4R 10   | Module fault IFM4R 9    | Module fault IFM4R 8   | Module fault IFM4R 7   | Module fault IFM4R 6   | Module fault IFM4R 5    | Module fault IFM4R 4   | Module fault IFM4R 3   | Module fault IFM4R 2   | Module fault IFM4R 1   |
| 8                                                                           | Active Timers 1                   | Timer 16               | Timer 15               | Timer 14               | Timer 13               | Timer 12                | Timer 11                | Timer 10                | Timer 9                 | Timer 8                | Timer 7                | Timer 6                | Timer 5                 | Timer 4                | Timer 3                | Timer 2                | Timer 1                |
| 9                                                                           | Active Timers 2                   | Timer 32               | Timer 31               | Timer 30               | Timer 29               | Timer 28                | Timer 27                | Timer 26                | Timer 25                | Timer 24               | Timer 23               | Timer 22               | Timer 21                | Timer 20               | Timer 19               | Timer 18               | Timer 17               |
| 10                                                                          | Disabled Timers 1                 | Timer 16               | Timer 15               | Timer 14               | Timer 13               | Timer 12                | Timer 11                | Timer 10                | Timer 9                 | Timer 8                | Timer 7                | Timer 6                | Timer 5                 | Timer 4                | Timer 3                | Timer 2                | Timer 1                |
| 11                                                                          | Disabled Timers 2                 | Timer 32               | Timer 31               | Timer 30               | Timer 29               | Timer 28                | Timer 27                | Timer 26                | Timer 25                | Timer 24               | Timer 23               | Timer 22               | Timer 21                | Timer 20               | Timer 19               | Timer 18               | Timer 17               |

| Registers for Previdia Max control panels (use Modbus 0x04 command to read) |                                              |                                 |                  |                       |                  |                          |                      |                                  |                      |                                 |                    |                          |                 |                           |                    |                        |                     |
|-----------------------------------------------------------------------------|----------------------------------------------|---------------------------------|------------------|-----------------------|------------------|--------------------------|----------------------|----------------------------------|----------------------|---------------------------------|--------------------|--------------------------|-----------------|---------------------------|--------------------|------------------------|---------------------|
| Address                                                                     | Name                                         | High byte                       |                  |                       |                  |                          |                      |                                  |                      | Low byte                        |                    |                          |                 |                           |                    |                        |                     |
|                                                                             |                                              | Bit 7                           | Bit 6            | Bit 5                 | Bit 4            | Bit 3                    | Bit 2                | Bit 1                            | Bit 0                | Bit 7                           | Bit 6              | Bit 5                    | Bit 4           | Bit 3                     | Bit 2              | Bit 1                  | Bit 0               |
| 12                                                                          | Loop fault                                   | Fault loop 16                   | Fault loop 15    | Fault loop 14         | Fault loop 13    | Fault loop 12            | Fault loop 11        | Fault loop 10                    | Fault loop 9         | Fault loop 8                    | Fault loop 7       | Fault loop 6             | Fault loop 5    | Fault loop 4              | Fault loop 3       | Fault loop 2           | Fault loop 1        |
| 13                                                                          | Loop disabled                                | Loop 16 disabled                | Loop 15 disabled | Loop 14 disabled      | Loop 13 disabled | Loop 12 disabled         | Loop 11 disabled     | Loop 10 disabled                 | Loop 9 disabled      | Loop 8 disabled                 | Loop 7 disabled    | Loop 6 disabled          | Loop 5 disabled | Loop 4 disabled           | Loop 3 disabled    | Loop 2 disabled        | Loop 1 disabled     |
| 20                                                                          | Status of tele-<br>phone commu-<br>nicator 1 | Monitoring failed               | Call queue full  | SMS fault             | SMS OK           | Fault call failed        | Fault call OK        | Alarm call failed                | Alarm call OK        | Fault call ongoing              | Alarm call ongoing |                          |                 |                           | GPFS Fault         | PSTN Fault             | GSM Fault           |
| 21                                                                          | Status of tele-<br>phone commu-<br>nicator 2 |                                 |                  |                       |                  | Fault GSM module         | Provider unavailable | Fault on SIM Card                | Weak signal          |                                 |                    |                          |                 |                           | Info call disabled | Fault call disabled    | Alarm call disabled |
| 22                                                                          | Communica-<br>tor status icons               | Status icons Alarm communicator |                  |                       |                  |                          |                      |                                  |                      | Status icons communicator fault |                    |                          |                 |                           |                    |                        |                     |
| 25                                                                          | Fire extinction module 1                     |                                 |                  |                       |                  |                          |                      |                                  |                      | Fault                           | Automatic stop     | Manual stop              | Pre-extinction  | Extinction                | Manual disabled    | Automatic disabled     | Disabled            |
| ...                                                                         | ...                                          |                                 |                  |                       |                  |                          |                      |                                  |                      |                                 |                    |                          |                 |                           |                    |                        |                     |
| 48                                                                          | Fire extinction module 24                    |                                 |                  |                       |                  |                          |                      |                                  |                      | Fault                           | Automatic stop     | Manual stop              | Pre-extinction  | Extinction                | Manual disabled    | Automatic disabled     | Disabled            |
| 49                                                                          | Faults on module terminals of extinction 1   |                                 |                  | Short circuit on HOLD | HOLD open        | Short circuit on MAN-EXT | MAN-EXT open         | Short circuit on PRESSURE SWITCH | PRESSURE SWITCH open | Short circuit on STOP-EXT       | STOP-EXT open      | Short circuit on PRE-EXT | PRE-EXT open    | Short circuit on RELEASED | RELEASED open      | Short circuit on VALVE | VALVE open          |
| ...                                                                         | ...                                          |                                 |                  |                       |                  |                          |                      |                                  |                      |                                 |                    |                          |                 |                           |                    |                        |                     |
| 72                                                                          | Faults on module terminals of extinction 24  |                                 |                  | Short circuit on HOLD | HOLD open        | Short circuit on MAN-EXT | MAN-EXT open         | Short circuit on PRESSURE SWITCH | PRESSURE SWITCH open | Short circuit on STOP-EXT       | STOP-EXT open      | Short circuit on PRE-EXT | PRE-EXT open    | Short circuit on RELEASED | RELEASED open      | Short circuit on VALVE | VALVE open          |
| 100                                                                         | Zone 1<br>Zone 2                             | Zone 2                          |                  |                       |                  |                          |                      |                                  |                      | Zone 1                          |                    |                          |                 |                           |                    |                        |                     |
|                                                                             |                                              | Smoke detection disabled        | Test             | Do not use            | Disabled         | Fault                    | Early warning        | Pre-alarm                        | Alarm                | Smoke detection disabled        | Test               | Do not use               | Disabled        | Fault                     | Early warning      | Pre-alarm              | Alarm               |
| ...                                                                         | ...                                          |                                 |                  |                       |                  |                          |                      |                                  |                      |                                 |                    |                          |                 |                           |                    |                        |                     |
| 599                                                                         | Zone 999<br>Zone 1000                        | Zone 1000                       |                  |                       |                  |                          |                      |                                  |                      | Zone 999                        |                    |                          |                 |                           |                    |                        |                     |
|                                                                             |                                              | Smoke detection disabled        | Test             | Do not use            | Disabled         | Fault                    | Early warning        | Pre-alarm                        | Alarm                | Smoke detection disabled        | Test               | Do not use               | Disabled        | Fault                     | Early warning      | Pre-alarm              | Alarm               |

**Registers for Previdia Max control panels (use Modbus 0x04 command to read)**

| Address | Name                                         | High byte                    |                                 |               |          |            |               |            |            | Low byte                     |                                 |               |          |            |               |            |            |
|---------|----------------------------------------------|------------------------------|---------------------------------|---------------|----------|------------|---------------|------------|------------|------------------------------|---------------------------------|---------------|----------|------------|---------------|------------|------------|
|         |                                              | Bit 7                        | Bit 6                           | Bit 5         | Bit 4    | Bit 3      | Bit 2         | Bit 1      | Bit 0      | Bit 7                        | Bit 6                           | Bit 5         | Bit 4    | Bit 3      | Bit 2         | Bit 1      | Bit 0      |
| 600     | Group 1<br>Group 2                           | Group 2                      |                                 |               |          |            |               |            |            | Group 1                      |                                 |               |          |            |               |            |            |
|         |                                              | Do not use                   | Do not use                      | Do not use    | Disabled | Do not use | Early warning | Pre-alarm  | Alarm      | Do not use                   | Do not use                      | Do not use    | Disabled | Do not use | Early warning | Pre-alarm  | Alarm      |
| ...     | ...                                          |                              |                                 |               |          |            |               |            |            |                              |                                 |               |          |            |               |            |            |
| 719     | Group 239<br>Group 240                       | Group 240                    |                                 |               |          |            |               |            |            | Group 239                    |                                 |               |          |            |               |            |            |
|         |                                              | Do not use                   | Do not use                      | Do not use    | Disabled | Do not use | Early warning | Pre-alarm  | Alarm      | Do not use                   | Do not use                      | Do not use    | Disabled | Do not use | Early warning | Pre-alarm  | Alarm      |
| 868     | IFM16IO 1 Mod-<br>ule<br>channels 1, 2       | IFM16IO 1 Module, channel 2  |                                 |               |          |            |               |            |            | IFM16IO 1 Module, channel 1  |                                 |               |          |            |               |            |            |
|         |                                              | Do not use                   | Input<br>activated in test mode | Output status | Disabled | Do not use | Early warning | Pre-alarm  | Alarm      | Do not use                   | Input<br>activated in test mode | Output status | Disabled | Do not use | Early warning | Pre-alarm  | Alarm      |
| ...     | ...                                          |                              |                                 |               |          |            |               |            |            |                              |                                 |               |          |            |               |            |            |
| 899     | IFM16IO 4<br>Module<br>channels 15, 16       | IFM16IO 4 Module, channel 16 |                                 |               |          |            |               |            |            | IFM16IO 4 Module, channel 15 |                                 |               |          |            |               |            |            |
|         |                                              | Do not use                   | Input<br>activated in test mode | Output status | Disabled | Do not use | Early warning | Pre-alarm  | Alarm      | Do not use                   | Input<br>activated in test mode | Output status | Disabled | Do not use | Early warning | Pre-alarm  | Alarm      |
| 900     | IFM4IO 1 Mod-<br>ule<br>channels 1, 2        | IFM4IO 1 Module, channel 2   |                                 |               |          |            |               |            |            | IFM4IO 1 Module, channel 1   |                                 |               |          |            |               |            |            |
|         |                                              | Do not use                   | Input<br>activated in test mode | Output status | Disabled | Fault      | Early warning | Pre-alarm  | Alarm      | Do not use                   | Input<br>activated in test mode | Output status | Disabled | Fault      | Early warning | Pre-alarm  | Alarm      |
| ...     | ...                                          |                              |                                 |               |          |            |               |            |            |                              |                                 |               |          |            |               |            |            |
| 931     | IFM4IO 16<br>Module<br>channels 3, 4         | IFM4IO 16 Module, channel 4  |                                 |               |          |            |               |            |            | IFM4IO 16 Module, channel 3  |                                 |               |          |            |               |            |            |
|         |                                              | Do not use                   | Input<br>activated in test mode | Output status | Disabled | Fault      | Early warning | Pre-alarm  | Alarm      | Do not use                   | Input<br>activated in test mode | Output status | Disabled | Fault      | Early warning | Pre-alarm  | Alarm      |
| 932     | Module<br>IFM4R 1<br>channels 1, 2           | IFM4R 1 Module, channel 2    |                                 |               |          |            |               |            |            | IFM4R 1 Module, channel 1    |                                 |               |          |            |               |            |            |
|         |                                              | Do not use                   | Do not use                      | Output status | Disabled | Do not use | Do not use    | Do not use | Do not use | Do not use                   | Do not use                      | Output status | Disabled | Do not use | Do not use    | Do not use | Do not use |
| ...     | ...                                          |                              |                                 |               |          |            |               |            |            |                              |                                 |               |          |            |               |            |            |
| 963     | Module<br>IFM4R 16<br>channels 3, 4          | IFM4R 16 Module, channel 4   |                                 |               |          |            |               |            |            | IFM4R 16 Module, channel 3   |                                 |               |          |            |               |            |            |
|         |                                              | Do not use                   | Do not use                      | Output status | Disabled | Do not use | Do not use    | Do not use | Do not use | Do not use                   | Do not use                      | Output status | Disabled | Do not use | Do not use    | Do not use | Do not use |
| 964     | IFM24160 1<br>Module<br>output 1<br>output 2 | IFM24160 1 Module, output 2  |                                 |               |          |            |               |            |            | IFM24160 1 Module, output 1  |                                 |               |          |            |               |            |            |
|         |                                              | Do not use                   | Do not use                      | Output status | Disabled | Fault      | Do not use    | Do not use | Do not use | Do not use                   | Do not use                      | Output status | Disabled | Fault      | Do not use    | Do not use | Do not use |



**Registers for Previdia Max control panels (use Modbus 0x04 command to read)**

| Address     | Name                                                     | High byte                   |                              |               |          |       |               |            |            | Low byte                    |                              |               |          |       |               |            |                     |
|-------------|----------------------------------------------------------|-----------------------------|------------------------------|---------------|----------|-------|---------------|------------|------------|-----------------------------|------------------------------|---------------|----------|-------|---------------|------------|---------------------|
|             |                                                          | Bit 7                       | Bit 6                        | Bit 5         | Bit 4    | Bit 3 | Bit 2         | Bit 1      | Bit 0      | Bit 7                       | Bit 6                        | Bit 5         | Bit 4    | Bit 3 | Bit 2         | Bit 1      | Bit 0               |
| <b>965</b>  | IFM24160 1 Module Output 3<br>IFM24160 2 Module Output 1 | IFM24160 2 Module, output 1 |                              |               |          |       |               |            |            | IFM24160 1 Module, output 3 |                              |               |          |       |               |            |                     |
|             |                                                          | Do not use                  | Do not use                   | Output status | Disabled | Fault | Do not use    | Do not use | Do not use | Do not use                  | Do not use                   | Output status | Disabled | Fault | Do not use    | Do not use | Do not use          |
| <b>966</b>  | IFM24160 2 Module output 2 output 3                      | IFM24160 2 Module, output 3 |                              |               |          |       |               |            |            | IFM24160 2 Module, output 2 |                              |               |          |       |               |            |                     |
|             |                                                          | Do not use                  | Do not use                   | Output status | Disabled | Fault | Do not use    | Do not use | Do not use | Do not use                  | Do not use                   | Output status | Disabled | Fault | Do not use    | Do not use | Do not use          |
| <b>967</b>  | IFM24160 3 Module output 1 output 2                      | IFM24160 3 Module, output 2 |                              |               |          |       |               |            |            | IFM24160 3 Module, output 1 |                              |               |          |       |               |            |                     |
|             |                                                          | Do not use                  | Do not use                   | Output status | Disabled | Fault | Do not use    | Do not use | Do not use | Do not use                  | Do not use                   | Output status | Disabled | Fault | Do not use    | Do not use | Do not use          |
| <b>968</b>  | IFM24160 3 Module Output 3<br>IFM24160 4 Module Output 1 | IFM24160 4 Module, output 1 |                              |               |          |       |               |            |            | IFM24160 3 Module, output 3 |                              |               |          |       |               |            |                     |
|             |                                                          | Do not use                  | Do not use                   | Output status | Disabled | Fault | Do not use    | Do not use | Do not use | Do not use                  | Do not use                   | Output status | Disabled | Fault | Do not use    | Do not use | Do not use          |
| <b>969</b>  | IFM24160 4 Module output 2 output 3                      | IFM24160 4 Module, output 3 |                              |               |          |       |               |            |            | IFM24160 4 Module, output 2 |                              |               |          |       |               |            |                     |
|             |                                                          | Do not use                  | Do not use                   | Output status | Disabled | Fault | Do not use    | Do not use | Do not use | Do not use                  | Do not use                   | Output status | Disabled | Fault | Do not use    | Do not use | Do not use          |
| <b>1000</b> | Information not shared over Hornet                       |                             |                              |               |          |       |               |            |            |                             |                              |               |          |       |               |            | Rearm Control panel |
| <b>1001</b> | Loop 1 Address 1 Address 2                               | Loop1 address 2             |                              |               |          |       |               |            |            | Loop1 address 1             |                              |               |          |       |               |            |                     |
|             |                                                          | Do not use                  | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm  | Alarm      | Do not use                  | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm  | Alarm               |
| ...         | ...                                                      |                             |                              |               |          |       |               |            |            |                             |                              |               |          |       |               |            |                     |
| <b>1120</b> | Loop 1 Address 239 Address 240                           | Loop1 address 240           |                              |               |          |       |               |            |            | Loop1 address 239           |                              |               |          |       |               |            |                     |
|             |                                                          | Do not use                  | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm  | Alarm      | Do not use                  | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm  | Alarm               |
| <b>1121</b> | Loop 2 Address 1 Address 2                               | Loop 2 address 2            |                              |               |          |       |               |            |            | Loop 2 address 1            |                              |               |          |       |               |            |                     |
|             |                                                          | Do not use                  | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm  | Alarm      | Do not use                  | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm  | Alarm               |
| ...         | ...                                                      |                             |                              |               |          |       |               |            |            |                             |                              |               |          |       |               |            |                     |
| <b>1240</b> | Loop 2 Address 239 Address 240                           | Loop 2 address 240          |                              |               |          |       |               |            |            | Loop 2 address 239          |                              |               |          |       |               |            |                     |
|             |                                                          | Do not use                  | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm  | Alarm      | Do not use                  | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm  | Alarm               |

**Registers for Previdia Max control panels (use Modbus 0x04 command to read)**

| Address     | Name                                 | High byte          |                              |               |          |       |               |           |       | Low byte           |                              |               |          |       |               |           |       |
|-------------|--------------------------------------|--------------------|------------------------------|---------------|----------|-------|---------------|-----------|-------|--------------------|------------------------------|---------------|----------|-------|---------------|-----------|-------|
|             |                                      | Bit 7              | Bit 6                        | Bit 5         | Bit 4    | Bit 3 | Bit 2         | Bit 1     | Bit 0 | Bit 7              | Bit 6                        | Bit 5         | Bit 4    | Bit 3 | Bit 2         | Bit 1     | Bit 0 |
| <b>1241</b> | Loop 3<br>Address 1<br>Address 2     | Loop 3 address 2   |                              |               |          |       |               |           |       | Loop 3 address 1   |                              |               |          |       |               |           |       |
|             |                                      | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm |
| ...         | ...                                  |                    |                              |               |          |       |               |           |       |                    |                              |               |          |       |               |           |       |
| <b>1360</b> | Loop 3<br>Address 239<br>Address 240 | Loop 3 address 240 |                              |               |          |       |               |           |       | Loop 3 address 239 |                              |               |          |       |               |           |       |
|             |                                      | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm |
| <b>1361</b> | Loop 4<br>Address 1<br>Address 2     | Loop 4 address 2   |                              |               |          |       |               |           |       | Loop 4 address 1   |                              |               |          |       |               |           |       |
|             |                                      | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm |
| ...         | ...                                  |                    |                              |               |          |       |               |           |       |                    |                              |               |          |       |               |           |       |
| <b>1480</b> | Loop 4<br>Address 239<br>Address 240 | Loop 4 address 240 |                              |               |          |       |               |           |       | Loop 4 address 239 |                              |               |          |       |               |           |       |
|             |                                      | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm |
| <b>1481</b> | Loop 5<br>Address 1<br>Address 2     | Loop 5 address 2   |                              |               |          |       |               |           |       | Loop 5 address 1   |                              |               |          |       |               |           |       |
|             |                                      | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm |
| ...         | ...                                  |                    |                              |               |          |       |               |           |       |                    |                              |               |          |       |               |           |       |
| <b>1600</b> | Loop 5<br>Address 239<br>Address 240 | Loop 5 address 240 |                              |               |          |       |               |           |       | Loop 5 address 239 |                              |               |          |       |               |           |       |
|             |                                      | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm |
| <b>1601</b> | Loop 6<br>Address 1<br>Address 2     | Loop 6 address 2   |                              |               |          |       |               |           |       | Loop 6 address 1   |                              |               |          |       |               |           |       |
|             |                                      | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm |
| ...         | ...                                  |                    |                              |               |          |       |               |           |       |                    |                              |               |          |       |               |           |       |

**Registers for Previdi Max control panels (use Modbus 0x04 command to read)**

| Address     | Name                                 | High byte          |                              |               |          |       |               |           |       | Low byte           |                              |               |          |       |               |           |       |
|-------------|--------------------------------------|--------------------|------------------------------|---------------|----------|-------|---------------|-----------|-------|--------------------|------------------------------|---------------|----------|-------|---------------|-----------|-------|
|             |                                      | Bit 7              | Bit 6                        | Bit 5         | Bit 4    | Bit 3 | Bit 2         | Bit 1     | Bit 0 | Bit 7              | Bit 6                        | Bit 5         | Bit 4    | Bit 3 | Bit 2         | Bit 1     | Bit 0 |
| <b>1720</b> | Loop 6<br>Address 239<br>Address 240 | Loop 6 address 240 |                              |               |          |       |               |           |       | Loop 6 address 239 |                              |               |          |       |               |           |       |
|             |                                      | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm |
| <b>1721</b> | Loop 7<br>Address 1<br>Address 2     | Loop 7 address 2   |                              |               |          |       |               |           |       | Loop 7 address 1   |                              |               |          |       |               |           |       |
|             |                                      | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm |
| ...         | ...                                  |                    |                              |               |          |       |               |           |       |                    |                              |               |          |       |               |           |       |
| <b>1840</b> | Loop 7<br>Address 239<br>Address 240 | Loop 7 address 240 |                              |               |          |       |               |           |       | Loop 7 address 239 |                              |               |          |       |               |           |       |
|             |                                      | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm |
| <b>1841</b> | Loop 8<br>Address 1<br>Address 2     | Loop 8 address 2   |                              |               |          |       |               |           |       | Loop 8 address 1   |                              |               |          |       |               |           |       |
|             |                                      | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm |
| ...         | ...                                  |                    |                              |               |          |       |               |           |       |                    |                              |               |          |       |               |           |       |
| <b>1960</b> | Loop 8<br>Address 239<br>Address 240 | Loop 8 address 240 |                              |               |          |       |               |           |       | Loop 8 address 239 |                              |               |          |       |               |           |       |
|             |                                      | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm |
| <b>1961</b> | Loop 9<br>Address 1<br>Address 2     | Loop 9 address 2   |                              |               |          |       |               |           |       | Loop 9 address 1   |                              |               |          |       |               |           |       |
|             |                                      | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm |
| ...         | ...                                  |                    |                              |               |          |       |               |           |       |                    |                              |               |          |       |               |           |       |
| <b>2080</b> | Loop 9<br>Address 239<br>Address 240 | Loop 9 address 240 |                              |               |          |       |               |           |       | Loop 9 address 239 |                              |               |          |       |               |           |       |
|             |                                      | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm |

**Registers for Previdia Max control panels (use Modbus 0x04 command to read)**

| Address     | Name                                  | High byte           |                              |               |          |       |               |           |       | Low byte            |                              |               |          |       |               |           |       |
|-------------|---------------------------------------|---------------------|------------------------------|---------------|----------|-------|---------------|-----------|-------|---------------------|------------------------------|---------------|----------|-------|---------------|-----------|-------|
|             |                                       | Bit 7               | Bit 6                        | Bit 5         | Bit 4    | Bit 3 | Bit 2         | Bit 1     | Bit 0 | Bit 7               | Bit 6                        | Bit 5         | Bit 4    | Bit 3 | Bit 2         | Bit 1     | Bit 0 |
| <b>2081</b> | Loop 10<br>Address 1<br>Address 2     | Loop 10 address 2   |                              |               |          |       |               |           |       | Loop 10 address 1   |                              |               |          |       |               |           |       |
|             |                                       | Do not use          | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use          | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm |
| ...         | ...                                   |                     |                              |               |          |       |               |           |       |                     |                              |               |          |       |               |           |       |
| <b>2200</b> | Loop 10<br>Address 239<br>Address 240 | Loop 10 address 240 |                              |               |          |       |               |           |       | Loop 10 address 239 |                              |               |          |       |               |           |       |
|             |                                       | Do not use          | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use          | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm |
| <b>2201</b> | Loop 11<br>Address 1<br>Address 2     | Loop 11 address 2   |                              |               |          |       |               |           |       | Loop 11 address 1   |                              |               |          |       |               |           |       |
|             |                                       | Do not use          | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use          | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm |
| ...         | ...                                   |                     |                              |               |          |       |               |           |       |                     |                              |               |          |       |               |           |       |
| <b>2320</b> | Loop 11<br>Address 239<br>Address 240 | Loop 11 address 240 |                              |               |          |       |               |           |       | Loop 11 address 239 |                              |               |          |       |               |           |       |
|             |                                       | Do not use          | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use          | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm |
| <b>2321</b> | Loop 12<br>Address 1<br>Address 2     | Loop 12 address 2   |                              |               |          |       |               |           |       | Loop 12 address 1   |                              |               |          |       |               |           |       |
|             |                                       | Do not use          | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use          | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm |
| ...         | ...                                   |                     |                              |               |          |       |               |           |       |                     |                              |               |          |       |               |           |       |
| <b>2440</b> | Loop 12<br>Address 239<br>Address 240 | Loop 12 address 240 |                              |               |          |       |               |           |       | Loop 12 address 239 |                              |               |          |       |               |           |       |
|             |                                       | Do not use          | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use          | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm |
| <b>2441</b> | Loop 13<br>Address 1<br>Address 2     | Loop 13 address 2   |                              |               |          |       |               |           |       | Loop 13 address 1   |                              |               |          |       |               |           |       |
|             |                                       | Do not use          | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use          | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm |
| ...         | ...                                   |                     |                              |               |          |       |               |           |       |                     |                              |               |          |       |               |           |       |

| Registers for Previdia Max control panels (use Modbus 0x04 command to read) |                                       |                     |                                 |               |          |       |               |           |       |                     |                                 |               |          |       |               |           |
|-----------------------------------------------------------------------------|---------------------------------------|---------------------|---------------------------------|---------------|----------|-------|---------------|-----------|-------|---------------------|---------------------------------|---------------|----------|-------|---------------|-----------|
| Address                                                                     | Name                                  | High byte           |                                 |               |          |       |               |           |       | Low byte            |                                 |               |          |       |               |           |
|                                                                             |                                       | Bit 7               | Bit 6                           | Bit 5         | Bit 4    | Bit 3 | Bit 2         | Bit 1     | Bit 0 | Bit 7               | Bit 6                           | Bit 5         | Bit 4    | Bit 3 | Bit 2         | Bit 1     |
| 2560                                                                        | Loop 13<br>Address 239<br>Address 240 | Loop 13 address 240 |                                 |               |          |       |               |           |       | Loop 13 address 239 |                                 |               |          |       |               |           |
|                                                                             |                                       | Do not use          | Input<br>activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use          | Input<br>activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm |
| 2561                                                                        | Loop 14<br>Address 1<br>Address 2     | Loop 14 address 2   |                                 |               |          |       |               |           |       | Loop 14 address 1   |                                 |               |          |       |               |           |
|                                                                             |                                       | Do not use          | Input<br>activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use          | Input<br>activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm |
| ...                                                                         | ...                                   |                     |                                 |               |          |       |               |           |       |                     |                                 |               |          |       |               |           |
| 2680                                                                        | Loop 14<br>Address 239<br>Address 240 | Loop 14 address 240 |                                 |               |          |       |               |           |       | Loop 14 address 239 |                                 |               |          |       |               |           |
|                                                                             |                                       | Do not use          | Input<br>activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use          | Input<br>activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm |
| 2681                                                                        | Loop 15<br>Address 1<br>Address 2     | Loop 15 address 2   |                                 |               |          |       |               |           |       | Loop 15 address 1   |                                 |               |          |       |               |           |
|                                                                             |                                       | Do not use          | Input<br>activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use          | Input<br>activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm |
| ...                                                                         | ...                                   |                     |                                 |               |          |       |               |           |       |                     |                                 |               |          |       |               |           |
| 2800                                                                        | Loop 15<br>Address 239<br>Address 240 | Loop 15 address 240 |                                 |               |          |       |               |           |       | Loop 15 address 239 |                                 |               |          |       |               |           |
|                                                                             |                                       | Do not use          | Input<br>activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use          | Input<br>activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm |
| 2801                                                                        | Loop 16<br>Address 1<br>Address 2     | Loop 16 address 2   |                                 |               |          |       |               |           |       | Loop 16 address 1   |                                 |               |          |       |               |           |
|                                                                             |                                       | Do not use          | Input<br>activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use          | Input<br>activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm |
| ...                                                                         | ...                                   |                     |                                 |               |          |       |               |           |       |                     |                                 |               |          |       |               |           |
| 2920                                                                        | Loop 16<br>Address 239<br>Address 240 | Loop 16 address 240 |                                 |               |          |       |               |           |       | Loop 16 address 239 |                                 |               |          |       |               |           |
|                                                                             |                                       | Do not use          | Input<br>activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use          | Input<br>activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm |

**Registers for Previdia Compact control panels (use Modbus 0x04 command to read)**

| Address   | Name                               | High byte                       |                 |           |          |                             |                      |                      |                                  | Low byte                        |                    |          |                         |            |                    |                     |                     |
|-----------|------------------------------------|---------------------------------|-----------------|-----------|----------|-----------------------------|----------------------|----------------------|----------------------------------|---------------------------------|--------------------|----------|-------------------------|------------|--------------------|---------------------|---------------------|
|           |                                    | Bit 7                           | Bit 6           | Bit 5     | Bit 4    | Bit 3                       | Bit 2                | Bit 1                | Bit 0                            | Bit 7                           | Bit 6              | Bit 5    | Bit 4                   | Bit 3      | Bit 2              | Bit 1               | Bit 0               |
| <b>0</b>  | Control panel details Status 1     | Access with level 1-4           |                 |           |          | Buzzer silenced             | Investigation        | Mute                 | Night mode                       |                                 |                    |          | Disabled                | Fault      | Early warning      | Pre-alarm           | Alarm               |
| <b>1</b>  | Control panel details Status 2     |                                 |                 |           |          |                             |                      | Fault on +24 RS485-2 | Fault on +24 RS485-1             |                                 |                    |          | Fault on ground (earth) | RT network | Fault on network   | Low battery         | Fault on battery    |
| <b>2</b>  | Fault on boards 1                  | Fault board PREVIDIA-C-DIAL     |                 |           |          |                             |                      |                      |                                  |                                 |                    |          |                         |            |                    |                     | Fault board I/O     |
| <b>6</b>  | Fault on boards 2                  |                                 |                 |           |          |                             |                      |                      | Module fault power supply module | Module fault PREVIDIA-C-COM     |                    |          |                         |            |                    |                     | Module fault LED    |
| <b>8</b>  | Active Timers 1                    | Timer 16                        | Timer 15        | Timer 14  | Timer 13 | Timer 12                    | Timer 11             | Timer 10             | Timer 9                          | Timer 8                         | Timer 7            | Timer 6  | Timer 5                 | Timer 4    | Timer 3            | Timer 2             | Timer 1             |
| <b>9</b>  | Active Timers 2                    | Timer 32                        | Timer 31        | Timer 30  | Timer 29 | Timer 28                    | Timer 27             | Timer 26             | Timer 25                         | Timer 24                        | Timer 23           | Timer 22 | Timer 21                | Timer 20   | Timer 19           | Timer 18            | Timer 17            |
| <b>10</b> | Disabled Timers 1                  | Timer 16                        | Timer 15        | Timer 14  | Timer 13 | Timer 12                    | Timer 11             | Timer 10             | Timer 9                          | Timer 8                         | Timer 7            | Timer 6  | Timer 5                 | Timer 4    | Timer 3            | Timer 2             | Timer 1             |
| <b>11</b> | Disabled Timers 2                  | Timer 32                        | Timer 31        | Timer 30  | Timer 29 | Timer 28                    | Timer 27             | Timer 26             | Timer 25                         | Timer 24                        | Timer 23           | Timer 22 | Timer 21                | Timer 20   | Timer 19           | Timer 18            | Timer 17            |
| <b>12</b> | Loop fault                         |                                 |                 |           |          |                             |                      |                      |                                  |                                 |                    |          |                         |            |                    | Fault loop 2        | Fault loop 1        |
| <b>13</b> | Loop disabled                      |                                 |                 |           |          |                             |                      |                      |                                  |                                 |                    |          |                         |            |                    | Loop 2 disabled     | Loop 1 disabled     |
| <b>20</b> | Status of telephone communicator 1 | Monitoring failed               | Call queue full | SMS fault | SMS OK   | Fault call failed           | Fault call OK        | Alarm call failed    | Alarm call OK                    | Fault call ongoing              | Alarm call ongoing |          |                         |            | GPRS Fault         | PSTN Fault          | GSM Fault           |
| <b>21</b> | Status of telephone communicator 2 | Fault SIA over Ethernet         |                 |           |          | Fault board PREVIDIA-C-DIAL | Provider unavailable | Fault on SIM Card    | Weak signal                      |                                 |                    |          |                         |            | Info call disabled | Fault call disabled | Alarm call disabled |
| <b>22</b> | Communicator status icons          | Status icons Alarm communicator |                 |           |          |                             |                      |                      |                                  | Status icons communicator fault |                    |          |                         |            |                    |                     |                     |



**Registers for Previdia Compact control panels (use Modbus 0x04 command to read)**

| Address | Name                                    | High byte                  |                              |                                    |                                   |            |               |           |                                      | Low byte                 |                              |               |                                |                      |                      |                    |                  |
|---------|-----------------------------------------|----------------------------|------------------------------|------------------------------------|-----------------------------------|------------|---------------|-----------|--------------------------------------|--------------------------|------------------------------|---------------|--------------------------------|----------------------|----------------------|--------------------|------------------|
|         |                                         | Bit 7                      | Bit 6                        | Bit 5                              | Bit 4                             | Bit 3      | Bit 2         | Bit 1     | Bit 0                                | Bit 7                    | Bit 6                        | Bit 5         | Bit 4                          | Bit 3                | Bit 2                | Bit 1              | Bit 0            |
| 23      | Status of the PREVIDIA-C-COM module     | Fault on second WW pathway | Fault on first WW pathway    | Configuration on second WW pathway | Configuration on first WW pathway |            |               |           | 0: faults on WW<br>1: WW functioning | WW loss                  | Smart485 in not present      | EVAC disabled | Ethernet processor not present | Fault on +24 RS485-2 | Fault on +24 RS485-1 | Fault EVAC         | Fault ESPA 4.4.4 |
| 25      | Fire extinction module                  |                            |                              |                                    |                                   |            |               |           |                                      | Fault                    | Automatic stop               | Manual stop   | Pre-extinction                 | Extinction           | Manual disabled      | Automatic disabled | Disabled         |
| 49      | Faults on electrovalve terminal (I/O 4) |                            |                              |                                    |                                   |            |               |           |                                      |                          |                              |               |                                |                      |                      | Short circuit      | Open             |
| 100     | Zone 1<br>Zone 2                        | Zone 2                     |                              |                                    |                                   |            |               |           |                                      | Zone 1                   |                              |               |                                |                      |                      |                    |                  |
|         |                                         | Smoke detection disabled   | Test                         | Do not use                         | Disabled                          | Fault      | Early warning | Pre-alarm | Alarm                                | Smoke detection disabled | Test                         | Do not use    | Disabled                       | Fault                | Early warning        | Pre-alarm          | Alarm            |
| ...     | ...                                     |                            |                              |                                    |                                   |            |               |           |                                      |                          |                              |               |                                |                      |                      |                    |                  |
| 599     | Zone 999<br>Zone 1000                   | Zone 1000                  |                              |                                    |                                   |            |               |           |                                      | Zone 999                 |                              |               |                                |                      |                      |                    |                  |
|         |                                         | Smoke detection disabled   | Test                         | Do not use                         | Disabled                          | Fault      | Early warning | Pre-alarm | Alarm                                | Smoke detection disabled | Test                         | Do not use    | Disabled                       | Fault                | Early warning        | Pre-alarm          | Alarm            |
| 600     | Group 1<br>Group 2                      | Group 2                    |                              |                                    |                                   |            |               |           |                                      | Group 1                  |                              |               |                                |                      |                      |                    |                  |
|         |                                         | Do not use                 | Do not use                   | Do not use                         | Disabled                          | Do not use | Early warning | Pre-alarm | Alarm                                | Do not use               | Do not use                   | Do not use    | Disabled                       | Do not use           | Early warning        | Pre-alarm          | Alarm            |
| ...     | ...                                     |                            |                              |                                    |                                   |            |               |           |                                      |                          |                              |               |                                |                      |                      |                    |                  |
| 719     | Group 239<br>Group 240                  | Group 240                  |                              |                                    |                                   |            |               |           |                                      | Group 239                |                              |               |                                |                      |                      |                    |                  |
|         |                                         | Do not use                 | Do not use                   | Do not use                         | Disabled                          | Do not use | Early warning | Pre-alarm | Alarm                                | Do not use               | Do not use                   | Do not use    | Disabled                       | Do not use           | Early warning        | Pre-alarm          | Alarm            |
| 900     | Channels I/O 1,<br>I/O 2                | Channel I/O 2              |                              |                                    |                                   |            |               |           |                                      | Channel I/O 1            |                              |               |                                |                      |                      |                    |                  |
|         |                                         | Do not use                 | Input activated in test mode | Output status                      | Disabled                          | Fault      | Early warning | Pre-alarm | Alarm                                | Do not use               | Input activated in test mode | Output status | Disabled                       | Fault                | Early warning        | Pre-alarm          | Alarm            |
| 901     | Channels I/O 3,<br>I/O 4                | Channel I/O 4              |                              |                                    |                                   |            |               |           |                                      | Channel I/O 3            |                              |               |                                |                      |                      |                    |                  |
|         |                                         | Do not use                 | Input activated in test mode | Output status                      | Disabled                          | Fault      | Early warning | Pre-alarm | Alarm                                | Do not use               | Input activated in test mode | Output status | Disabled                       | Fault                | Early warning        | Pre-alarm          | Alarm            |
| 932     | Relay output                            |                            |                              |                                    |                                   |            |               |           |                                      | Relay output             |                              |               |                                |                      |                      |                    |                  |
|         |                                         |                            |                              |                                    |                                   |            |               |           |                                      | Do not use               | Do not use                   | Output status | Disabled                       | Do not use           | Do not use           | Do not use         | Do not use       |

**Registers for Previdia Compact control panels (use Modbus 0x04 command to read)**

| Address     | Name                                 | High byte          |                              |               |          |       |               |           |       | Low byte           |                              |               |          |       |               |           |                     |
|-------------|--------------------------------------|--------------------|------------------------------|---------------|----------|-------|---------------|-----------|-------|--------------------|------------------------------|---------------|----------|-------|---------------|-----------|---------------------|
|             |                                      | Bit 7              | Bit 6                        | Bit 5         | Bit 4    | Bit 3 | Bit 2         | Bit 1     | Bit 0 | Bit 7              | Bit 6                        | Bit 5         | Bit 4    | Bit 3 | Bit 2         | Bit 1     | Bit 0               |
| <b>1000</b> | Information not shared over Hornet   |                    |                              |               |          |       |               |           |       |                    |                              |               |          |       |               |           | Rearm Control panel |
| <b>1001</b> | Loop 1<br>Address 1<br>Address 2     | Loop1 address 2    |                              |               |          |       |               |           |       | Loop1 address 1    |                              |               |          |       |               |           |                     |
|             |                                      | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm               |
| ...         | ...                                  |                    |                              |               |          |       |               |           |       |                    |                              |               |          |       |               |           |                     |
| <b>1120</b> | Loop 1<br>Address 239<br>Address 240 | Loop1 address 240  |                              |               |          |       |               |           |       | Loop1 address 239  |                              |               |          |       |               |           |                     |
|             |                                      | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm               |
| <b>1121</b> | Loop 2<br>Address 1<br>Address 2     | Loop 2 address 2   |                              |               |          |       |               |           |       | Loop 2 address 1   |                              |               |          |       |               |           |                     |
|             |                                      | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm               |
| ...         | ...                                  |                    |                              |               |          |       |               |           |       |                    |                              |               |          |       |               |           |                     |
| <b>1240</b> | Loop 2<br>Address 239<br>Address 240 | Loop 2 address 240 |                              |               |          |       |               |           |       | Loop 2 address 239 |                              |               |          |       |               |           |                     |
|             |                                      | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm | Do not use         | Input activated in test mode | Output status | Disabled | Fault | Early warning | Pre-alarm | Alarm               |

## COIL

Med WRITE SINGLE COIL menes kommandoer som betjener og kan endre status for brannvarslingsanlegget. For å aktivere COIL kommandoer i forhold til implementeringen av en operasjon, må disse settes til "ON".

| COIL (use the Modbus 0x05 command) |                                                                  |         |                                              |
|------------------------------------|------------------------------------------------------------------|---------|----------------------------------------------|
| Address                            | Name for Previdia Max                                            | Address | Name for Previdia Max                        |
| 0                                  | Implement "Action 1"                                             | 5500    | Enable/Disable relay 1 of module IFM4R 1     |
| ...                                | ...                                                              | ...     | ...                                          |
| 99                                 | Implement "Action 100"                                           | 5563    | Enable/Disable relay 4 of module IFM4R 16    |
| 100                                | Enable/Disable Zone 1                                            | 5600    | Enable/Disable output 1 of module IFM24160 1 |
| ...                                | ...                                                              | ...     | ...                                          |
| 1099                               | Enable/Disable Zone 1000                                         | 5611    | Enable/Disable output 3 of module IFM24160 4 |
| 1100                               | Enable/Disable I/O 1 of module IFM4IO 1                          | 5700    | Enable/Disable address 1 of loop 1           |
| ...                                | ...                                                              | ...     | ...                                          |
| 1163                               | Enable/Disable I/O 4 of module IFM4IO 16                         | 9540    | Enable/Disable address 240 of loop 16        |
| 1200                               | Activate/Deactivate relay 1 of module IFM4R 1                    | 20000   | Perform test for zone 1                      |
| ...                                | ...                                                              | ...     | ...                                          |
| 1263                               | Activate/Deactivate relay 4 of module IFM4R 16                   | 20999   | Perform test for zone 1000                   |
| 1300                               | Activate/Deactivate output 1 of module IFM24160 1                | 21000   | Set day mode                                 |
| ...                                | ...                                                              | 21001   | Switch off buzzer                            |
| 1311                               | Activate/Deactivate output 3 of module IFM24160 4                | 21002   | Silence                                      |
| 1400                               | Activate/Deactivate output of device with address 1 of loop 1    | 21003   | Investigation                                |
| ...                                | ...                                                              | 21004   | End pre-alarms                               |
| 5239                               | Activate/Deactivate output of device with address 240 of loop 16 | 21005   | Rearm                                        |
| 5400                               | Activate/Deactivate I/O 1 of module IFM4IO 1                     |         |                                              |
| ...                                | ...                                                              |         |                                              |
| 5463                               | Enable/Disable I/O 4 of module IFM4IO 16                         |         |                                              |

| COIL (use the Modbus 0x05 command) |                                                                 |         |                                      |
|------------------------------------|-----------------------------------------------------------------|---------|--------------------------------------|
| Address                            | Name for Previdia Compact                                       | Address | Name for Previdia Compact            |
| 0                                  | Implement "Action 1"                                            | 5500    | Enable/Disable relay                 |
| ...                                | ...                                                             | 5700    | Enable/Disable address 1 of loop 1   |
| 99                                 | Implement "Action 100"                                          | ...     | ...                                  |
| 100                                | Enable/Disable Zone 1                                           | 6179    | Enable/Disable address 240 of loop 2 |
| ...                                | ...                                                             | 20000   | Perform test for zone 1              |
| 1099                               | Enable/Disable Zone 1000                                        | ...     | ...                                  |
| 1100                               | Activate/Deactivate I/O 1                                       | 20999   | Perform test for zone 1000           |
| ...                                | ...                                                             | 21000   | Set day mode                         |
| 1103                               | Activate/Deactivate I/O 4                                       | 21001   | Switch off buzzer                    |
| 1200                               | Activate/Deactivate relay                                       | 21002   | Silence                              |
| 1400                               | Activate/Deactivate output of device with address 1 of loop 1   | 21003   | Investigation                        |
| ...                                | ...                                                             | 21004   | End pre-alarms                       |
| 1879                               | Activate/Deactivate output of device with address 240 of loop 2 | 21005   | Rearm                                |
| 5400                               | Enable/Disable I/O 1                                            |         |                                      |
| ...                                | ...                                                             |         |                                      |
| 5403                               | Enable/Disable I/O 4                                            |         |                                      |