

## Modbus TCP Register List

### GreenManager for GreenMaster @ and XXL

*Valid for firmware version 2500 or later*

#### Overview

Modbus can access single addresses or multiple addresses simultaneously; either reading or writing single bit values or 16-bit values.

A Modbus address contains either a 1-bit discrete value or a 16-bit integer value.

#### Modbus ID

The default Modbus ID for GreenManager is **60**.

#### Modbus Addressing

1-based: Modbus registers and bit numbers are assumed to start the numbering from 1.

#### Modbus data types

1-bit values or 16-bit values

| Modbus Type      | Description           | Reference |
|------------------|-----------------------|-----------|
| Coil Status      | Discrete Output (R/W) | 0x        |
| Input Status     | Discrete Input (RO)   | 1x        |
| Input Register   | 16-bit Register (RO)  | 3x        |
| Holding Register | 16-bit Register (R/W) | 4x        |

#### Supported Modbus commands

The GreenManager Control Unit support these Modbus commands:

| Function code | Description               |
|---------------|---------------------------|
| 01            | Read Coil Status          |
| 02            | Read Input Status         |
| 03            | Read Holding Registers    |
| 04            | Read Input Registers      |
| 05            | Force Single Coil         |
| 06            | Present Single Registers  |
| 08            | Diagnostics               |
| 15            | Force Multiple Colis      |
| 16            | Preset Multiple Registers |

| Modbus | Designation   | Min/Max | Note |
|--------|---|---------|------|
| 000273 | <b>Activation of Manual Operation for Output - TX1 (HX)</b><br>0=Auto, 1=Manual   | 0-1     |      |
| 000274 | <b>Activation of Manual Operation for Output - T.GQ1 (SA Fan)</b><br>0=Auto, 1=Manual   | 0-1     |      |
| 000275 | <b>Activation of Manual Operation for Output - F.GQ1 (EA Fan)</b><br>0=Auto, 1=Manual   | 0-1     |      |
| 000276 | <b>Activation of Manual Operation for Output - C.QN1 (Valve)</b><br>0=Auto, 1=Manual  | 0-1     |      |
| 000277 | <b>Activation of Manual Operation for Output - H.QN1 (Valve)</b><br>0=Auto, 1=Manual  | 0-1     |      |
| 000433 | <b>Alarm Reset - Fire</b><br>Write 1 to this bit to reset Fire Alarm  | 0-1     |      |
| 000434 | <b>Alarm Reset - H.BT1 Frost Guard</b><br>Write 1 to this bit to reset H.BT1 Frost Guard Alarm  | 0-1     |      |
| 000435 | <b>Reserve</b>  |         |      |
| 000436 | <b>Alarm Reset - Tripped Fuse</b><br>Write 1 to this bit to reset Fuse Alarm  | 0-1     |      |
| 000437 | <b>Alarm Reset - PV Temperature Regulator Deviation Alarm</b><br>Write 1 to this bit to reset Temp. Regulator Deviation Alarm                   | 0-1     |      |
| 000438 | <b>Alarm Reset - T.BP1/T.BF1 (SA) Regulator Deviation Alarm</b><br>Write 1 to this bit to reset SA Regulator Deviation Alarm                    | 0-1     |      |
| 000439 | <b>Alarm Reset - F.BP1/F.BF1 (EA) Regulator Deviation Alarm</b><br>Write 1 to this bit to reset EA Regulator Deviation Alarm                    | 0-1     |      |
| 000440 | <b>Alarm Reset - T.GQ1 (SA) Fan Alarm</b><br>Write 1 to this bit to reset SA Fan Alarm  | 0-1     |      |
| 000441 | <b>Alarm Reset - F.GQ1 (EA) Fan Alarm</b><br>Write 1 to this bit to reset EA Fan Alarm  | 0-1     |      |
| 000442 | <b>Alarm Reset - TX1 (HX) Low Efficiency Alarm</b><br>Write 1 to this bit to reset HX Low Efficiency Alarm                                      | 0-1     |      |
| 000443 | <b>Alarm Reset - TX1 (HX) Rotation Monitor (GMA) / High Pressure (GMXXL)</b><br>Write 1 to this bit to reset HX Rotation/HX High Pressure Alarm | 0-1     |      |
| 000444 | <b>Alarm Reset - T.BP2 (SA) Filter Alarm</b><br>Write 1 to this bit to reset SA Filter Alarm  | 0-1     |      |
| 000445 | <b>Alarm Reset - F.BP2 (EA) Filter Alarm</b><br>Write 1 to this bit to reset EA Filter Alarm  | 0-1     |      |
| 002017 | <b>Activation of Manual Operation for Digital Output - H.GP1 (Pump)</b><br>0=Auto, 1=Manual   | 0-1     |      |
| 002018 | <b>Activation of Manual Operation for Digital Output - C.GP1 (Pump)</b><br>0=Auto, 1=Manual   | 0-1     |      |
| 002020 | <b>Activation of Manual Operation for Digital Output - F.QM1 (Damper)</b><br>0=Auto, 1=Manual   | 0-1     |      |
| 002021 | <b>Activation of Manual Operation for Digital Output - T.QM1 (Damper)</b><br>0=Auto, 1=Manual   | 0-1     |      |
| 002022 | <b>Activation of Manual Operation for Digital Output - T.QM2 (Damper)</b><br>0=Auto, 1=Manual   | 0-1     |      |

| Modbus | Designation  | Min/Max | Note |
|--------|--|---------|------|
| 002023 | <b>Activation of Manual Operation for Digital Output - F.QM2 (Damper)</b><br>0=Auto, 1=Manual  | 0-1     |      |
| 002033 | <b>H.GP1 - Heating Pump Manual Override</b><br>Manual operation for H.GP1 must be activated to be able to write to this parameter<br>(0=OFF, 1=ON)       | 0-1     |      |
| 002034 | <b>C.GP1 - Cooling Pump Manual Override</b><br>Manual operation for C.GP1 must be activated to be able to write to this parameter<br>(0=OFF, 1=ON)       | 0-1     |      |
| 002036 | <b>F.QM1 - EA Damper Manual Override</b><br>Manual operation for F.QM1 must be activated to be able to write to this parameter<br>(0=OFF, 1=ON)          | 0-1     |      |
| 002037 | <b>T.QM1 - SA Damper Manual Override</b><br>Manual operation for T.QM1 must be activated to be able to write to this parameter<br>(0=OFF, 1=ON)          | 0-1     |      |
| 002038 | <b>T.QM2 - Outdoor Air Damper Manual Override</b><br>Manual operation for T.QM2 must be activated to be able to write to this parameter<br>(0=OFF, 1=ON) | 0-1     |      |
| 002039 | <b>F.QM2 - Fire Bypass Damper Manual Override</b><br>Manual operation for F.QM2 must be activated to be able to write to this parameter<br>(0=OFF, 1=ON) | 0-1     |      |
| 006169 | <b>Alarm Reset - Smoke Detector in SC2 address 21</b><br>Write 1 to this bit to reset Smoke Detector Alarm in SC2.21                                     | 0-1     |      |
| 006170 | <b>Alarm Reset - Smoke Detector in SC2 address 22</b><br>Write 1 to this bit to reset Smoke Detector Alarm in SC2.22                                     | 0-1     |      |
| 006171 | <b>Alarm Reset - Smoke Detector in SC2 address 23</b><br>Write 1 to this bit to reset Smoke Detector Alarm in SC2.23                                     | 0-1     |      |
| 006172 | <b>Alarm Reset - Smoke Detector in SC2 address 24</b><br>Write 1 to this bit to reset Smoke Detector Alarm in SC2.24                                     | 0-1     |      |
| 006449 | <b>Activation of Manual Operation for Digital Output T.QM1.1</b><br><b>SC2.1.DO1 (GMXXL Only)</b><br>0=Auto, 1=Manual                                    | 0-1     |      |
| 006450 | <b>Activation of Manual Operation for Digital Output T.QM1.2</b><br><b>SC2.1.DO2 (GMXXL Only)</b><br>0=Auto, 1=Manual                                    | 0-1     |      |
| 006451 | <b>Activation of Manual Operation for Digital Output T.QM1.3</b><br><b>SC2.2.DO1 (GMXXL Only)</b><br>0=Auto, 1=Manual                                    | 0-1     |      |
| 006452 | <b>Activation of Manual Operation for Digital Output T.QM1.4</b><br><b>SC2.2.DO2 (GMXXL Only)</b><br>0=Auto, 1=Manual                                    | 0-1     |      |
| 006453 | <b>Activation of Manual Operation for Digital Output T.QM1.5</b><br><b>SC2.3.DO1 (GMXXL Only)</b><br>0=Auto, 1=Manual                                    | 0-1     |      |

| Modbus | Designation  | Min/Max | Note |
|--------|--|---------|------|
| 006454 | <b>Activation of Manual Operation for Digital Output T.QM1.6 SC2.3.DO2 (GMXXL Only)</b><br>0=Auto, 1=Manual  | 0-1     |      |
| 006457 | <b>T.QM1.1 - HX Damper 1 Manual Override (GMXXL Only)</b><br>Manual operation for T.QM1.1 must be activated to be able to write to this parameter<br>(0=OFF, 1=ON) | 0-1     |      |
| 006458 | <b>T.QM1.2 - HX Damper 2 Manual Override (GMXXL Only)</b><br>Manual operation for T.QM1.2 must be activated to be able to write to this parameter<br>(0=OFF, 1=ON) | 0-1     |      |
| 006459 | <b>T.QM1.3 - HX Damper 3 Manual Override (GMXXL Only)</b><br>Manual operation for T.QM1.3 must be activated to be able to write to this parameter<br>(0=OFF, 1=ON) | 0-1     |      |
| 006460 | <b>T.QM1.4 - HX Damper 4 Manual Override (GMXXL Only)</b><br>Manual operation for T.QM1.4 must be activated to be able to write to this parameter<br>(0=OFF, 1=ON) | 0-1     |      |
| 006461 | <b>T.QM1.5 - HX Damper 5 Manual Override (GMXXL Only)</b><br>Manual operation for T.QM1.5 must be activated to be able to write to this parameter<br>(0=OFF, 1=ON) | 0-1     |      |
| 006462 | <b>T.QM1.6 - HX Damper 6 Manual Override (GMXXL Only)</b><br>Manual operation for T.QM1.6 must be activated to be able to write to this parameter<br>(0=OFF, 1=ON) | 0-1     |      |
| 006464 | <b>Activation of Manual Operation for F.QN1 HX Bypass Damper (GMXXL Only)</b>  | 0-1     |      |
| 009457 | <b>Activation of Electric Heating via DO3 Function (GMA Only)</b>  | 0-1     |      |
| 012659 | <b>Activation of F.QN1 Winter Close Function (GMXXL Only)</b>  | 0-1     |      |

| Modbus | Designation   | Min/Max | Note |
|--------|---|---------|------|
| 100033 | <b>Stop/Start Status</b><br>0 = Air Handling Unit Started<br>1 = Air Handling Unit Stopped                                | 0-1     |      |
| 100036 | <b>Start via Time Channel</b><br>0 = Time Channel Stop (Prohibit Run)<br>1 = Time Channel Run (Permit Run)                | 0-1     |      |
| 100129 | <b>Digital Output - DO 1 (H.GP1 - Heating Pump Output)</b>  | 0-1     |      |
| 100130 | <b>Digital Output - DO 2 (C.GP1 - Cooling Pump Output)</b>  | 0-1     |      |
| 100131 | <b>Digital Output - DO 3 (F.GQ1 - Run Status Output)</b>  | 0-1     |      |
| 100132 | <b>Digital Output - DO 4 (F.QM1 - EA Damper Output)</b>   | 0-1     |      |
| 100133 | <b>Digital Output - DO 5 (T.QM1 - SA Damper Output)</b>   | 0-1     |      |
| 100134 | <b>Digital Output - DO 6 (T.QM2 - Outdoor Damper Output)</b>  | 0-1     |      |
| 100135 | <b>Digital Output - DO 7 (F.QM2 - Fire Bypass Damper Output)</b>  | 0-1     |      |
| 100145 | <b>Digital Input Status - DI 1 (Reserve)</b>  | 0-1     |      |
| 100146 | <b>Digital Input Status - DI 2 (Fire)</b>   | 0-1     |      |
| 100147 | <b>Digital Input Status - DI 3 (Fuse)</b>   | 0-1     |      |
| 100148 | <b>Digital Input Status - DI 4 (HX/High Pressure)</b>   | 0-1     |      |
| 100149 | <b>Digital Input Status - DI 5 (T.GQ1 Fan Alarm)</b>  | 0-1     |      |
| 100150 | <b>Digital Input Status - DI 6 (F.GQ1 Fan Alarm)</b>  | 0-1     |      |
| 100151 | <b>Digital Input Status - DI 7 (F.QM2 Damper Closed)</b>  | 0-1     |      |
| 100152 | <b>Digital Input Status - DI 8 (F.QM2 Damper Open)</b>  | 0-1     |      |
| 100153 | <b>Digital Input Status - DI 9 (SF1 Extended Run)</b>   | 0-1     |      |
| 100178 | <b>Alarm Status - Fire Alarm via Digital Input (DI2)</b>  | 0-1     |      |
| 100241 | <b>T.GQ1 (SA) Fan is running</b>  | 0-1     |      |
| 100242 | <b>F.GQ1 (EA) Fan is running</b>  | 0-1     |      |
| 100245 | <b>Alarm Status - Fire Alarm via Analogue Smoke Detector (AI3)</b>  | 0-1     |      |
| 100246 | <b>Alarm Status - Fire Alarm via Analogue Smoke Detector (AI4)</b>  | 0-1     |      |
| 100247 | <b>Alarm Status - Fire Alarm via Analogue Smoke Detector (AI5)</b>  | 0-1     |      |
| 100248 | <b>Alarm Status - Fire Alarm via Analogue Smoke Detector (AI6)</b>  | 0-1     |      |
| 100249 | <b>Alarm Status - Analogue Smoke Detector Service Alarm (AI3)</b>   | 0-1     |      |
| 100250 | <b>Alarm Status - Analogue Smoke Detector Service Alarm (AI4)</b>   | 0-1     |      |
| 100251 | <b>Alarm Status - Analogue Smoke Detector Service Alarm (AI5)</b>   | 0-1     |      |
| 100252 | <b>Alarm Status - Analogue Smoke Detector Service Alarm (AI6)</b>   | 0-1     |      |
| 100254 | <b>Alarm Status - F.QM2 Bypass Damper Exercise Alarm</b>  | 0-1     |      |
| 100255 | <b>Copy of bit 100135 - DO 7 (F.QM2 - Fire Bypass Damper Out)</b>   | 0-1     |      |
| 100256 | <b>Alarm Status - Fire Alarm via F.BT1 and/or Digital Input</b>   | 0-1     |      |
| 100283 | <b>Cooling Recycling Function Active</b><br>This bit is set to 1 if the Cooling Recycling Function is active              | 0-1     |      |
| 100284 | <b>Night Cooling Function Active</b><br>This bit is set to 1 if the Night Cooling Function is active                      | 0-1     |      |
| 100286 | <b>T.GQ1 Flow Reduction Function Active</b><br>This bit is set to 1 if the T.GQ1 Flow Reduction Function is active        | 0-1     |      |
| 100287 | <b>Alarm Status - B-Alarm (Priority B)</b>  | 0-1     |      |
| 100288 | <b>Alarm Status - A-Alarm (Priority A)</b>  | 0-1     |      |
| 100401 | <b>Alarm Status - Fire Alarm</b><br>This bit is set to 1 if the Fire Alarm is active, no matter what source it comes from | 0-1     |      |
| 100402 | <b>Alarm Status - H.BT1 Frost Guard</b>   | 0-1     |      |
| 100403 | <b>Reserve</b>  |         |      |
| 100404 | <b>Alarm Status - Tripped Fuse</b>  | 0-1     |      |
| 100405 | <b>Alarm Status - PV Temperature Regulator Deviation Alarm</b>  | 0-1     |      |

| Modbus | Designation  | Min/Max | Note |
|--------|--|---------|------|
| 100406 | Alarm Status - T.BP1/T.BF1 (SA) Regulator Deviation Alarm  | 0-1     |      |
| 100407 | Alarm Status - F.BP1/F.BF1 (EA) Regulator Deviation Alarm  | 0-1     |      |
| 100408 | Alarm Status - T.GQ1 (SA) Fan Alarm  | 0-1     |      |
| 100409 | Alarm Status - F.GQ1 (EA) Fan Alarm  | 0-1     |      |
| 100410 | Alarm Status - TX1 (HX) Low Efficiency Alarm   | 0-1     |      |
| 100411 | (GMA) Alarm Status - TX1 (HX) Rotation Monitor<br>(GMXXL) Alarm Status - F.BP3 High Pressure Alarm | 0-1     |      |
| 100412 | Alarm Status - T.BP2 (SA) Filter Alarm   | 0-1     |      |
| 100413 | Alarm Status - F.BP2 (EA) Filter Alarm   | 0-1     |      |
| 100414 | Alarm Status - Smoke Detector Service Alarm  | 0-1     |      |
| 100415 | Alarm Status - Sum Alarm for all QM (Dampers)  | 0-1     |      |
| 105905 | Digital Output - SC2.1.DO1 - T.QM1.1 - (GMXXL only)  | 0-1     |      |
| 105921 | Digital Output - SC2.1.DO2 - T.QM1.2 - (GMXXL only)  | 0-1     |      |
| 105937 | Digital Output - SC2.2.DO1 - T.QM1.3 - (GMXXL only)  | 0-1     |      |
| 105953 | Digital Output - SC2.2.DO2 - T.QM1.4 - (GMXXL only)  | 0-1     |      |
| 105969 | Digital Output - SC2.3.DO1 - T.QM1.5 - (GMXXL only)  | 0-1     |      |
| 105985 | Digital Output - SC2.3.DO2 - T.QM1.6 - (GMXXL only)  | 0-1     |      |
| 106177 | SC2 address 21 - Communication Error   | 0-1     |      |
| 106178 | SC2 address 21 - Fire Alarm Active in SC2.21   | 0-1     |      |
| 106179 | SC2 address 21 - Reserve   |         |      |
| 106180 | SC2 address 21 - Damper 1 Alarm  | 0-1     |      |
| 106181 | SC2 address 21 - Dampers Exercising  | 0-1     |      |
| 106182 | SC2 address 21 - Damper 2 Alarm  | 0-1     |      |
| 106183 | SC2 address 21 - Damper Sum Alarm (1, 2 or both)   | 0-1     |      |
| 106184 | Reserve  |         |      |
| 106185 | SC2 address 21 - Damper 1 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106186 | SC2 address 21 - Damper 1 Open (Spring loaded/Normal op.) DI                                       | 0-1     |      |
| 106187 | SC2 address 21 - Damper 2 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106188 | SC2 address 21 - Damper 2 Open (Spring loaded/Normal op.) DI                                       | 0-1     |      |
| 106189 | SC2 address 21 - Smoke Detector Normal Operation   | 0-1     |      |
| 106190 | SC2 address 21 - Smoke Detector Alarm  | 0-1     |      |
| 106191 | SC2 address 21 - Smoke Detector Service Alarm  | 0-1     |      |
| 106192 | SC2 address 21 - Smoke Detector Cable Break  | 0-1     |      |
| 106193 | SC2 address 22 - Communication Error   | 0-1     |      |
| 106194 | SC2 address 22 - Fire Alarm Active in SC2.22   | 0-1     |      |
| 106195 | SC2 address 22 - Reserve   |         |      |
| 106196 | SC2 address 22 - Damper 1 Alarm  | 0-1     |      |
| 106197 | SC2 address 22 - Dampers Exercising  | 0-1     |      |
| 106198 | SC2 address 22 - Damper 2 Alarm  | 0-1     |      |
| 106199 | SC2 address 22 - Damper Sum Alarm (1, 2 or both)   | 0-1     |      |
| 106200 | Reserve  |         |      |
| 106201 | SC2 address 22 - Damper 1 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106202 | SC2 address 22 - Damper 1 Open (Spring loaded/Normal op.) DI                                       | 0-1     |      |
| 106203 | SC2 address 22 - Damper 2 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106204 | SC2 address 22 - Damper 2 Open (Spring loaded/Normal op.) DI                                       | 0-1     |      |
| 106205 | SC2 address 22 - Smoke Detector Normal Operation   | 0-1     |      |
| 106206 | SC2 address 22 - Smoke Detector Alarm  | 0-1     |      |
| 106207 | SC2 address 22 - Smoke Detector Service Alarm  | 0-1     |      |
| 106208 | SC2 address 22 - Smoke Detector Cable Break  | 0-1     |      |
| 106209 | SC2 address 23 - Communication Error   | 0-1     |      |
| 106210 | SC2 address 23 - Fire Alarm Active in SC2.23   | 0-1     |      |

| Modbus | Designation  | Min/Max | Note |
|--------|--|---------|------|
| 106211 | SC2 address 23 - Reserve                                     |         |      |
| 106212 | SC2 address 23 - Damper 1 Alarm                              | 0-1     |      |
| 106213 | SC2 address 23 - Dampers Exercising                          | 0-1     |      |
| 106214 | SC2 address 23 - Damper 2 Alarm                              | 0-1     |      |
| 106215 | SC2 address 23 - Damper Sum Alarm (1, 2 or both)             | 0-1     |      |
| 106216 | Reserve  |         |      |
| 106217 | SC2 address 23 - Damper 1 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106218 | SC2 address 23 - Damper 1 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106219 | SC2 address 23 - Damper 2 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106220 | SC2 address 23 - Damper 2 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106221 | SC2 address 23 - Smoke Detector Normal Operation             | 0-1     |      |
| 106222 | SC2 address 23 - Smoke Detector Alarm                        | 0-1     |      |
| 106223 | SC2 address 23 - Smoke Detector Service Alarm                | 0-1     |      |
| 106224 | SC2 address 23 - Smoke Detector Cable Break                  | 0-1     |      |
| 106225 | SC2 address 24 - Communication Error                         | 0-1     |      |
| 106226 | SC2 address 24 - Fire Alarm Active in SC2.24                 | 0-1     |      |
| 106227 | SC2 address 24 - Reserve                                     |         |      |
| 106228 | SC2 address 24 - Damper 1 Alarm                              | 0-1     |      |
| 106229 | SC2 address 24 - Dampers Exercising                          | 0-1     |      |
| 106230 | SC2 address 24 - Damper 2 Alarm                              | 0-1     |      |
| 106231 | SC2 address 24 - Damper Sum Alarm (1, 2 or both)             | 0-1     |      |
| 106232 | Reserve  |         |      |
| 106233 | SC2 address 24 - Damper 1 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106234 | SC2 address 24 - Damper 1 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106235 | SC2 address 24 - Damper 2 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106236 | SC2 address 24 - Damper 2 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106237 | SC2 address 24 - Smoke Detector Normal Operation             | 0-1     |      |
| 106238 | SC2 address 24 - Smoke Detector Alarm                        | 0-1     |      |
| 106239 | SC2 address 24 - Smoke Detector Service Alarm                | 0-1     |      |
| 106240 | SC2 address 24 - Smoke Detector Cable Break                  | 0-1     |      |
| 106273 | SC2 address 25 - Communication Error                         | 0-1     |      |
| 106274 | SC2 address 25 - Fire Alarm Active in SC2.24                 | 0-1     |      |
| 106275 | SC2 address 25 - Reserve                                     |         |      |
| 106276 | SC2 address 25 - Damper 1 Alarm                              | 0-1     |      |
| 106277 | SC2 address 25 - Dampers Exercising                          | 0-1     |      |
| 106278 | SC2 address 25 - Damper 2 Alarm                              | 0-1     |      |
| 106279 | SC2 address 25 - Damper Sum Alarm (1, 2 or both)             | 0-1     |      |
| 106280 | Reserve  |         |      |
| 106281 | SC2 address 25 - Damper 1 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106282 | SC2 address 25 - Damper 1 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106283 | SC2 address 25 - Damper 2 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106284 | SC2 address 25 - Damper 2 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106285 | SC2 address 25 - Smoke Detector Normal Operation             | 0-1     |      |
| 106286 | SC2 address 25 - Smoke Detector Alarm                        | 0-1     |      |
| 106287 | SC2 address 25 - Smoke Detector Service Alarm                | 0-1     |      |
| 106288 | SC2 address 25 - Smoke Detector Cable Break                  | 0-1     |      |
| 106289 | SC2 address 26 - Communication Error                         | 0-1     |      |
| 106290 | SC2 address 26 - Fire Alarm Active in SC2.24                 | 0-1     |      |
| 106291 | SC2 address 26 - Reserve                                     |         |      |
| 106292 | SC2 address 26 - Damper 1 Alarm                              | 0-1     |      |
| 106293 | SC2 address 26 - Dampers Exercising                          | 0-1     |      |

| Modbus | Designation  | Min/Max | Note |
|--------|--|---------|------|
| 106294 | SC2 address 26 - Damper 2 Alarm                              | 0-1     |      |
| 106295 | SC2 address 26 - Damper Sum Alarm (1, 2 or both)             | 0-1     |      |
| 106296 | Reserve  |         |      |
| 106297 | SC2 address 26 - Damper 1 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106298 | SC2 address 26 - Damper 1 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106299 | SC2 address 26 - Damper 2 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106300 | SC2 address 26 - Damper 2 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106301 | SC2 address 26 - Smoke Detector Normal Operation             | 0-1     |      |
| 106302 | SC2 address 26 - Smoke Detector Alarm                        | 0-1     |      |
| 106303 | SC2 address 26 - Smoke Detector Service Alarm                | 0-1     |      |
| 106304 | SC2 address 26 - Smoke Detector Cable Break                  | 0-1     |      |
| 106353 | SC2 address 27 - Communication Error                         | 0-1     |      |
| 106354 | SC2 address 27 - Fire Alarm Active in SC2.24                 | 0-1     |      |
| 106355 | SC2 address 27 - Reserve                                     |         |      |
| 106356 | SC2 address 27 - Damper 1 Alarm                              | 0-1     |      |
| 106357 | SC2 address 27 - Dampers Exercising                          | 0-1     |      |
| 106358 | SC2 address 27 - Damper 2 Alarm                              | 0-1     |      |
| 106359 | SC2 address 27 - Damper Sum Alarm (1, 2 or both)             | 0-1     |      |
| 106360 | Reserve  |         |      |
| 106361 | SC2 address 27 - Damper 1 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106362 | SC2 address 27 - Damper 1 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106363 | SC2 address 27 - Damper 2 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106364 | SC2 address 27 - Damper 2 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106365 | SC2 address 27 - Smoke Detector Normal Operation             | 0-1     |      |
| 106366 | SC2 address 27 - Smoke Detector Alarm                        | 0-1     |      |
| 106367 | SC2 address 27 - Smoke Detector Service Alarm                | 0-1     |      |
| 106368 | SC2 address 27 - Smoke Detector Cable Break                  | 0-1     |      |
| 106369 | SC2 address 28 - Communication Error                         | 0-1     |      |
| 106370 | SC2 address 28 - Fire Alarm Active in SC2.24                 | 0-1     |      |
| 106371 | SC2 address 28 - Reserve                                     |         |      |
| 106372 | SC2 address 28 - Damper 1 Alarm                              | 0-1     |      |
| 106373 | SC2 address 28 - Dampers Exercising                          | 0-1     |      |
| 106374 | SC2 address 28 - Damper 2 Alarm                              | 0-1     |      |
| 106375 | SC2 address 28 - Damper Sum Alarm (1, 2 or both)             | 0-1     |      |
| 106376 | Reserve  |         |      |
| 106377 | SC2 address 28 - Damper 1 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106378 | SC2 address 28 - Damper 1 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106379 | SC2 address 28 - Damper 2 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106380 | SC2 address 28 - Damper 2 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106381 | SC2 address 28 - Smoke Detector Normal Operation             | 0-1     |      |
| 106382 | SC2 address 28 - Smoke Detector Alarm                        | 0-1     |      |
| 106383 | SC2 address 28 - Smoke Detector Service Alarm                | 0-1     |      |
| 106384 | SC2 address 28 - Smoke Detector Cable Break                  | 0-1     |      |
| 106385 | SC2 address 29 - Communication Error                         | 0-1     |      |
| 106386 | SC2 address 29 - Fire Alarm Active in SC2.24                 | 0-1     |      |
| 106387 | SC2 address 29 - Reserve                                     |         |      |
| 106388 | SC2 address 29 - Damper 1 Alarm                              | 0-1     |      |
| 106389 | SC2 address 29 - Dampers Exercising                          | 0-1     |      |
| 106390 | SC2 address 29 - Damper 2 Alarm                              | 0-1     |      |
| 106391 | SC2 address 29 - Damper Sum Alarm (1, 2 or both)             | 0-1     |      |
| 106392 | Reserve  |         |      |



| Modbus | Designation  | Min/Max | Note |
|--------|--|---------|------|
| 106393 | SC2 address 29 - Damper 1 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106394 | SC2 address 29 - Damper 1 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106395 | SC2 address 29 - Damper 2 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106396 | SC2 address 29 - Damper 2 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106397 | SC2 address 29 - Smoke Detector Normal Operation             | 0-1     |      |
| 106398 | SC2 address 29 - Smoke Detector Alarm                        | 0-1     |      |
| 106399 | SC2 address 29 - Smoke Detector Service Alarm                | 0-1     |      |
| 106400 | SC2 address 29 - Smoke Detector Cable Break                  | 0-1     |      |
| 106401 | SC2 address 30 - Communication Error                         | 0-1     |      |
| 106402 | SC2 address 30 - Fire Alarm Active in SC2.24                 | 0-1     |      |
| 106403 | SC2 address 30 - Reserve                                     |         |      |
| 106404 | SC2 address 30 - Damper 1 Alarm                              | 0-1     |      |
| 106405 | SC2 address 30 - Dampers Exercising                          | 0-1     |      |
| 106406 | SC2 address 30 - Damper 2 Alarm                              | 0-1     |      |
| 106407 | SC2 address 30 - Damper Sum Alarm (1, 2 or both)             | 0-1     |      |
| 106408 | Reserve  |         |      |
| 106409 | SC2 address 30 - Damper 1 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106410 | SC2 address 30 - Damper 1 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106411 | SC2 address 30 - Damper 2 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106412 | SC2 address 30 - Damper 2 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106413 | SC2 address 30 - Smoke Detector Normal Operation             | 0-1     |      |
| 106414 | SC2 address 30 - Smoke Detector Alarm                        | 0-1     |      |
| 106415 | SC2 address 30 - Smoke Detector Service Alarm                | 0-1     |      |
| 106416 | SC2 address 30 - Smoke Detector Cable Break                  | 0-1     |      |
| 106417 | SC2 address 31 - Communication Error                         | 0-1     |      |
| 106418 | SC2 address 31 - Fire Alarm Active in SC2.24                 | 0-1     |      |
| 106419 | SC2 address 31 - Reserve                                     |         |      |
| 106420 | SC2 address 31 - Damper 1 Alarm                              | 0-1     |      |
| 106421 | SC2 address 31 - Dampers Exercising                          | 0-1     |      |
| 106422 | SC2 address 31 - Damper 2 Alarm                              | 0-1     |      |
| 106423 | SC2 address 31 - Damper Sum Alarm (1, 2 or both)             | 0-1     |      |
| 106424 | Reserve  |         |      |
| 106425 | SC2 address 31 - Damper 1 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106426 | SC2 address 31 - Damper 1 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106427 | SC2 address 31 - Damper 2 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106428 | SC2 address 31 - Damper 2 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106429 | SC2 address 31 - Smoke Detector Normal Operation             | 0-1     |      |
| 106430 | SC2 address 31 - Smoke Detector Alarm                        | 0-1     |      |
| 106431 | SC2 address 31 - Smoke Detector Service Alarm                | 0-1     |      |
| 106432 | SC2 address 31 - Smoke Detector Cable Break                  | 0-1     |      |
| 106433 | SC2 address 32 - Communication Error                         | 0-1     |      |
| 106434 | SC2 address 32 - Fire Alarm Active in SC2.24                 | 0-1     |      |
| 106435 | SC2 address 32 - Reserve                                     |         |      |
| 106436 | SC2 address 32 - Damper 1 Alarm                              | 0-1     |      |
| 106437 | SC2 address 32 - Dampers Exercising                          | 0-1     |      |
| 106438 | SC2 address 32 - Damper 2 Alarm                              | 0-1     |      |
| 106439 | SC2 address 32 - Damper Sum Alarm (1, 2 or both)             | 0-1     |      |
| 106440 | Reserve  |         |      |
| 106441 | SC2 address 32 - Damper 1 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106442 | SC2 address 32 - Damper 1 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106443 | SC2 address 32 - Damper 2 Closed (Spring released/Fire) DI   | 0-1     |      |

| Modbus | Designation  | Min/Max | Note |
|--------|--|---------|------|
| 106444 | SC2 address 32 - Damper 2 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106445 | SC2 address 32 - Smoke Detector Normal Operation             | 0-1     |      |
| 106446 | SC2 address 32 - Smoke Detector Alarm                        | 0-1     |      |
| 106447 | SC2 address 32 - Smoke Detector Service Alarm                | 0-1     |      |
| 106448 | SC2 address 32 - Smoke Detector Cable Break                  | 0-1     |      |
| 106449 | SC2 address 33 - Communication Error                         | 0-1     |      |
| 106450 | SC2 address 33 - Fire Alarm Active in SC2.24                 | 0-1     |      |
| 106451 | SC2 address 33 - Reserve                                     |         |      |
| 106452 | SC2 address 33 - Damper 1 Alarm                              | 0-1     |      |
| 106453 | SC2 address 33 - Dampers Exercising                          | 0-1     |      |
| 106454 | SC2 address 33 - Damper 2 Alarm                              | 0-1     |      |
| 106455 | SC2 address 33 - Damper Sum Alarm (1, 2 or both)             | 0-1     |      |
| 106456 | Reserve  |         |      |
| 106457 | SC2 address 33 - Damper 1 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106458 | SC2 address 33 - Damper 1 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106459 | SC2 address 33 - Damper 2 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106460 | SC2 address 33 - Damper 2 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106461 | SC2 address 33 - Smoke Detector Normal Operation             | 0-1     |      |
| 106462 | SC2 address 33 - Smoke Detector Alarm                        | 0-1     |      |
| 106463 | SC2 address 33 - Smoke Detector Service Alarm                | 0-1     |      |
| 106464 | SC2 address 33 - Smoke Detector Cable Break                  | 0-1     |      |
| 106465 | SC2 address 34 - Communication Error                         | 0-1     |      |
| 106466 | SC2 address 34 - Fire Alarm Active in SC2.24                 | 0-1     |      |
| 106467 | SC2 address 34 - Reserve                                     |         |      |
| 106468 | SC2 address 34 - Damper 1 Alarm                              | 0-1     |      |
| 106469 | SC2 address 34 - Dampers Exercising                          | 0-1     |      |
| 106470 | SC2 address 34 - Damper 2 Alarm                              | 0-1     |      |
| 106471 | SC2 address 34 - Damper Sum Alarm (1, 2 or both)             | 0-1     |      |
| 106472 | Reserve  |         |      |
| 106473 | SC2 address 34 - Damper 1 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106474 | SC2 address 34 - Damper 1 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106475 | SC2 address 34 - Damper 2 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106476 | SC2 address 34 - Damper 2 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106477 | SC2 address 34 - Smoke Detector Normal Operation             | 0-1     |      |
| 106478 | SC2 address 34 - Smoke Detector Alarm                        | 0-1     |      |
| 106479 | SC2 address 34 - Smoke Detector Service Alarm                | 0-1     |      |
| 106480 | SC2 address 34 - Smoke Detector Cable Break                  | 0-1     |      |
| 106481 | SC2 address 35 - Communication Error                         | 0-1     |      |
| 106482 | SC2 address 35 - Fire Alarm Active in SC2.24                 | 0-1     |      |
| 106483 | SC2 address 35 - Reserve                                     |         |      |
| 106484 | SC2 address 35 - Damper 1 Alarm                              | 0-1     |      |
| 106485 | SC2 address 35 - Dampers Exercising                          | 0-1     |      |
| 106486 | SC2 address 35 - Damper 2 Alarm                              | 0-1     |      |
| 106487 | SC2 address 35 - Damper Sum Alarm (1, 2 or both)             | 0-1     |      |
| 106488 | Reserve  |         |      |
| 106489 | SC2 address 35 - Damper 1 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106490 | SC2 address 35 - Damper 1 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106491 | SC2 address 35 - Damper 2 Closed (Spring released/Fire) DI   | 0-1     |      |
| 106492 | SC2 address 35 - Damper 2 Open (Spring loaded/Normal op.) DI | 0-1     |      |
| 106493 | SC2 address 35 - Smoke Detector Normal Operation             | 0-1     |      |
| 106494 | SC2 address 35 - Smoke Detector Alarm                        | 0-1     |      |

| Modbus | Designation   | Min/Max | Note |
|--------|---|---------|------|
| 106495 | SC2 address 35 - Smoke Detector Service Alarm   | 0-1     |      |
| 106496 | SC2 address 35 - Smoke Detector Cable Break   | 0-1     |      |
| 112241 | PV Temperature Regulator - Min. Value Limitation Active<br>This bit is set to 1 if the Min. Limitation Function is active | 0-1     |      |
| 112242 | PV Temperature Regulator - Max. Value Limitation Active<br>This bit is set to 1 if the Max. Limitation Function is active | 0-1     |      |

| Modbus | Designation  | Min/Max     | Note        |
|--------|--|-------------|-------------|
| 300008 | BT1 via MODBUS - Outdoor Temperature via MODBUS  | -40.0-99.0  | °C          |
| 300021 | TX1 - (HX) Efficiency Alt. 1 (T.BT3-BT1/F.BT1-BT1)   | 0-100       | %           |
| 300022 | TX1 - (HX) Efficiency Alt. 2 (F.BT1-F.BT2/F.BT1-BT1)   | 0-100       | %           |
| 300033 | T.BF1 (SA) - Differential Pressure   | 0-9999      | Pa          |
| 300034 | T.BF1 (SA) - Air Flow  | 0-9999      | l/s         |
| 300035 | F.BF1 (EA) - Differential Pressure   | 0-9999      | Pa          |
| 300036 | F.BF1 (EA) - Air Flow  | 0-9999      | l/s         |
| 300037 | T.BT1 - Supply Air Duct Temperature  | -55.0-125.0 | °C          |
| 300038 | H.BT1 - Heating Coil Frost Guard Temperature   | -55.0-125.0 | °C          |
| 300039 | F.BT1 - Extract Air Temperature  | -55.0-125.0 | °C          |
| 300040 | BT1 - Outdoor Temperature  | -55.0-125.0 | °C          |
| 300041 | T.BP1 - Supply Air Duct Pressure   | 0-9999      | Pa          |
| 300042 | F.BP1 - Extract Air Duct Pressure  | 0-9999      | Pa          |
| 300043 | T.BT3 - Supply Air Temperature (Before reheating)  | -55.0-125.0 | °C          |
| 300044 | T.BT2 - Outdoor Air Temperature (Integrated)   | -55.0-125.0 | °C          |
| 300045 | F.BT2 - Exhaust Air Temperature  | -55.0-125.0 | °C          |
| 300046 | T.BP2 - Supply Air Filter Pressure   | 0-9999      | Pa          |
| 300047 | F.BP2 - Extract Air Filter Pressure  | 0-9999      | Pa          |
| 300048 | BT2 - Room Temperature   | -55.0-125.0 | °C          |
| 300049 | TX1 - HX Output Value  | 0-4096      | 4096 = 100% |
| 300050 | T.GQ1 - SA Fan Output Value  | 0-4096      | 4096 = 100% |
| 300051 | F.GQ1 - EA Fan Output Value  | 0-4096      | 4096 = 100% |
| 300052 | C.QN1 - Cooling Control Valve Output Value   | 0-4096      | 4096 = 100% |
| 300053 | H.QN1 - Heating Control Valve Output Value   | 0-4096      | 4096 = 100% |
| 300079 | Zero parameter<br>This value will always be 0  | 0           |             |
| 300177 | Year<br>Internal clock   | 2000-2099   |             |
| 300178 | Month<br>Internal clock  | 1-12        |             |
| 300179 | Date<br>Internal clock   | 0-31        |             |
| 300180 | Hour<br>Internal clock   | 0-23        |             |
| 300181 | Minute<br>Internal clock   | 0-59        |             |
| 300182 | Second<br>Internal clock   | 0-59        |             |
| 300183 | Weekday<br>Internal clock<br>(1 = Monday, 7 = Sunday)  | 1-7         |             |
| 300289 | PV Temperature Regulator Current Setpoint  | 0.0-99.0    | °C          |
| 300305 | T.BP1 - Supply Air Pressure Current Setpoint (Pressure control)<br>T.BF1 - Supply Air Flow Current Setpoint (Flow control)   | 0-9999      | Pa (or l/s) |
| 300321 | F.BP1 - Extract Air Pressure Current Setpoint (Pressure control)<br>F.BF1 - Extract Air Flow Current Setpoint (Flow control) | 0-9999      | Pa (or l/s) |
| 300369 | F.QN1 - HX Bypass Damper Output Value (GMXXL Only)   | 0-4096      | 4096 = 100% |
| 300370 | Reserve  |             |             |
| 300701 | T.BP1/T.BF1 Setpoint Current Offset  | 0-9999      | Pa (or l/s) |
| 300702 | F.BP1/F.BF1 Setpoint Current Offset  | 0-9999      | Pa (or l/s) |
| 300762 | Copy of Holding Parameter 433530 - Sampled F.BT1 Value   | -55.0-125.0 | °C          |

**INPUT REGISTER - 16-bit integer value (RO)**

| Modbus                       | Designation   | Min/Max     | Note                 |
|------------------------------|---|-------------|----------------------|
| <b>300980</b>                | <b>Current SFP Value</b>  | 0.000-3.000 | kW/m <sup>3</sup> /s |
| <b>301153.</b><br><b>16H</b> | <b>Air Handling Unit Identity</b><br>String containing 16 letters | ABCDEFGH... | String               |

## HOLDING REGISTER - 16-bit integer value (R/W)

| Modbus | Designation  | Min/Max    | Note        |
|--------|--|------------|-------------|
| 400008 | <b>BT1 via MODBUS - Outdoor Temperature via MODBUS</b><br>If "BT1 - Outdoor Temperature" input is set to use temperature via Modbus, you are able to write the current temperature to this parameter. Read BT1 value via parameter 300040. | -40.0-99.0 | °C          |
| 400032 | <b>Alarm Reset</b><br>Write 1 to this parameter to reset all alarms in the unit  | 0-1        |             |
| 400049 | <b>(GMA Only) TX1 - HX Heat Exchanger Output Value</b><br>Manual operation for TX1 must be activated to be able to write to this parameter   | 0-4096     | 4096 = 100% |
| 400050 | <b>T.GQ1 - SA Fan Output Value</b><br>Manual operation for T.GQ1 must be activated to be able to write to this parameter   | 0-4096     | 4096 = 100% |
| 400051 | <b>F.GQ1 - EA Fan Output Value</b><br>Manual operation for F.GQ1 must be activated to be able to write to this parameter   | 0-4096     | 4096 = 100% |
| 400052 | <b>C.QN1 - Cooling Control Valve Output Value</b><br>Manual operation for C.QN1 must be activated to be able to write to this parameter  | 0-4096     | 4096 = 100% |
| 400053 | <b>H.QN1 - Heating Control Valve Output Value</b><br>Manual operation for H.QN1 must be activated to be able to write to this parameter  | 0-4096     | 4096 = 100% |
| 400177 | <b>Year</b><br>Setting for the internal clock  | 2000-2099  |             |
| 400178 | <b>Month</b><br>Setting for the internal clock   | 1-12       |             |
| 400179 | <b>Date</b><br>Setting for the internal clock  | 0-31       |             |
| 400180 | <b>Hour</b><br>Setting for the internal clock  | 0-23       |             |
| 400181 | <b>Minute</b><br>Setting for the internal clock  | 0-59       |             |
| 400182 | <b>Second</b><br>Setting for the internal clock  | 0-59       |             |
| 400183 | <b>Weekday</b><br>Setting for the internal clock<br>(1 = Monday, 7 = Sunday)   | 1-7        |             |
| 400184 | <b>Control Register</b><br>Write 1 to this register to stop the clock. Then you will be able to change the clock registers above. Write 3 to this register to start the clock again  | 0-3        |             |
| 400369 | <b>(GMXXL Only) F.QN1 - HX Bypass Damper Output Value</b><br>Manual operation for F.QN1 must be activated to be able to write to this parameter  | 0-4096     | 4096 = 100% |
| 432772 | <b>Unit Start/Stop</b><br>If the Air Handling unit is set to use Start/Stop via Modbus, this parameter can be used to start and stop the unit<br>0 = Air Handling Unit Stopped<br>1 = Air Handling Unit Running                            | 0-1        |             |
| 433059 | <b>PV Temperature Regulator - P-Band</b>   | 0.0-99.0   | °C          |
| 433061 | <b>PV Temperature Regulator - I-time</b>   | 0-3600     | s           |
| 433083 | <b>T.GQ1 Max Limitation Value</b>  | 0-4096     | 4096 = 100% |

| Modbus | Designation  | Min/Max    | Note        |
|--------|--|------------|-------------|
| 433099 | F.GQ1 Max Limitation Value   | 0-4096     | 4096 = 100% |
| 433121 | H.QN1 Frost Guard Regulator - Setpoint   | 0.0-99.0   | °C          |
| 433123 | H.QN1 Frost Guard Regulator - P-Band   | 0.0-99.0   | °C          |
| 433125 | H.QN1 Frost Guard Regulator - I-time   | 0.0-99.0   | °C          |
| 433163 | External Fire Dampers Exercise Start Time (Hour)   | 0-23       | h           |
| 433164 | External Fire Dampers Exercise Start Time (Minute)   | 0-59       | min         |
| 433165 | External Fire Dampers Exercise Interval  | 0-20160    | min         |
| 433285 | PV Temperature Regulator - Alarm Delay   | 0-7200     | s           |
| 433286 | T.BP1 (SA) Duct Pressure Regulator - Alarm Delay (Pressure contr)<br>T.BF1 (SA) Flow Regulator - Alarm Delay (Flow control)                          | 0-7200     | s           |
| 433287 | F.BP1 (EA) Duct Pressure Regulator - Alarm Delay (Pressure contr)<br>F.BF1 (EA) Flow Regulator - Alarm Delay (Flow control)                          | 0-7200     | s           |
| 433288 | T.GQ1 (SA) - Fan Alarm Delay   | 0-7200     | s           |
| 433289 | F.GQ1 (EA) - Fan Alarm Delay   | 0-7200     | s           |
| 433290 | TX1 (HX) - Low Efficiency Alarm Delay  | 0-7200     | s           |
| 433291 | F.BP3 Defrost Alarm Delay  | 0-7200     | s           |
| 433292 | T.BP2 - (SA) Filter Alarm Delay  | 0-7200     | s           |
| 433293 | F.BP2 - (EA) Filter Alarm Delay  | 0-7200     | s           |
| 433294 | Smoke Detector Service Alarm Delay   | 0-7200     | s           |
| 433329 | PV Temperature Regulator - Setpoint (Setting)  | 0.0-99.0   | °C          |
| 433330 | H.GP1 Low Temperature Start Temp   | -10.0-20.0 | °C          |
| 433331 | H.GP1 Low Temperature Hysteresis   | 0.0-5.0    | °C          |
| 433332 | H.BT1 Frost Guard Unit Stop Temperature  | 0.0-99.0   | °C          |
| 433333 | H.BT1 Frost Guard Unit Stop Hysteresis   | 0.0-5.0    | °C          |
| 433334 | F.BT1 Fire Alarm Temperature   | 38.0-45.0  | °C          |
| 433335 | TX1 (HX) Low Efficiency Alt. 1 Alarm Level<br>(0 = Function is not used)   | 0-95       | %           |
| 433336 | TX1 (HX) Low Efficiency Alt. 2 Alarm Level<br>(0 = Function is not used)   | 0-95       | %           |
| 433337 | PV Temperature Regulator - Deviation Alarm Level   | 0.0-99.0   | °C          |
| 433338 | T.GQ1 Value During Fire  | 0-4096     | 4096 = 100% |
| 433341 | PV Temperature Regulator - Min. Value<br>Min. Value Limit of Temperature Regulator   | 0.0-99.0   | °C          |
| 433342 | PV Temperature Regulator - Max. Value<br>Max. Value Limit of Temperature Regulator   | 0.0-99.0   | °C          |
| 433343 | T.GQ1 (SA) - Fan Startup Delay   | 0-120      | s           |
| 433344 | F.GQ1 (EA) - Fan Startup Delay   | 0-240      | s           |
| 433354 | F.GQ1 Value During Fire  | 0-4096     | 4096 = 100% |
| 433360 | (GMA Only) Electric Heating ON/OFF via DO3<br>0 = Function not used<br>50-100 = Value when DO3 should activate extra heating<br>(50=Earlv. 100=Late) | 0, 50-100  | %           |
| 433363 | H.GP1/C.GP1 Exercise Interval  | 0-20160    | min         |
| 433364 | H.GP1/C.GP1 Exercise Time  | 0-600      | s           |
| 433365 | F.QM2 Exercise Interval  | 0-20160    | min         |
| 433366 | F.QM2 Exercise Time  | 0-600      | s           |
| 433377 | T.BP1 - (SA) Pressure Regulator - Setpoint (Setting)   | 0-9999     | Pa          |
| 433378 | T.BF1 - (SA) Air Flow Regulator - Setpoint (Setting)   | 0-9999     | l/s         |
| 433379 | T.BP1 - (SA) Pressure Regulator - P-Band   | 0-9999     | Pa          |
| 433380 | T.BF1 - (SA) Air Flow Regulator - P-Band   | 0-9999     | l/s         |
| 433381 | T.BP1 - (SA) Pressure Regulator - I-time   | 0-3600     | s           |

| Modbus | Designation   | Min/Max    | Note        |
|--------|---|------------|-------------|
| 433382 | T.BF1 - (SA) Air Flow Regulator - I-time  | 0-3600     | s           |
| 433383 | T.BP1 - (SA) Pressure Regulator - Deviation Alarm Level   | 0-9999     | Pa          |
| 433384 | F.BP1 - (EA) Pressure Regulator - Setpoint (Setting)  | 0-9999     | Pa          |
| 433385 | F.BF1 - (EA) Air Flow Regulator - Setpoint (Setting)  | 0-9999     | l/s         |
| 433386 | F.BP1 - (EA) Pressure Regulator - P-Band  | 0-9999     | Pa          |
| 433387 | F.BF1 - (EA) Air Flow Regulator - P-Band  | 0-9999     | l/s         |
| 433388 | F.BP1 - (EA) Pressure Regulator - I-time  | 0-3600     | s           |
| 433389 | F.BF1 - (EA) Air Flow Regulator - I-time  | 0-3600     | s           |
| 433390 | F.BP1 - (EA) Pressure Regulator - Deviation Alarm Level   | 0-9999     | Pa          |
| 433391 | T.BP2 - Supply Air Filter - Alarm Level Dirty Filter  | 0-9999     | Pa          |
| 433392 | F.BP2 - Extract Air Filter - Alarm Level Dirty Filter   | 0-9999     | Pa          |
| 433393 | Time Channel Monday - Start Hour  | 0-24       | h           |
| 433394 | Time Channel Monday - Stop Hour   | 0-24       | h           |
| 433395 | Time Channel Tuesday - Start Hour   | 0-24       | h           |
| 433396 | Time Channel Tuesday - Stop Hour  | 0-24       | h           |
| 433397 | Time Channel Wednesday - Start Hour   | 0-24       | h           |
| 433398 | Time Channel Wednesday - Stop Hour  | 0-24       | h           |
| 433399 | Time Channel Thursday - Start Hour  | 0-24       | h           |
| 433400 | Time Channel Thursday - Stop Hour   | 0-24       | h           |
| 433401 | Time Channel Friday - Start Hour  | 0-24       | h           |
| 433402 | Time Channel Friday - Stop Hour   | 0-24       | h           |
| 433403 | Time Channel Saturday - Start Hour  | 0-24       | h           |
| 433404 | Time Channel Saturday - Stop Hour   | 0-24       | h           |
| 433405 | Time Channel Sunday - Start Hour  | 0-24       | h           |
| 433406 | Time Channel Sunday - Stop Hour   | 0-24       | h           |
| 433409 | PV Temp. Regulator Setpoint Curve - Offset PV Temp 1<br>This is the regulator setpoint value, shifted according to Setpoint Curve.  | -40.0-99.0 | °C          |
| 433410 | PV Temp. Regulator Setpoint Curve - Offset PV Temp 2  | -40.0-99.0 | °C          |
| 433411 | PV Temp. Regulator Setpoint Curve - Offset PV Temp 3  | -40.0-99.0 | °C          |
| 433412 | PV Temp. Regulator Setpoint Curve - Offset PV Temp 4  | -40.0-99.0 | °C          |
| 433413 | PV Temp. Regulator Setpoint Curve - Offset PV Temp 5  | -40.0-99.0 | °C          |
| 433414 | PV Temp. Regulator Setpoint Curve - Offset PV Temp 6  | -40.0-99.0 | °C          |
| 433415 | PV Temp. Regulator Setpoint Curve - Offset PV Temp 7  | -40.0-99.0 | °C          |
| 433416 | PV Temp. Regulator Setpoint Curve - Offset PV Temp 8  | -40.0-99.0 | °C          |
| 433417 | PV Temp. Regulator Setpoint Curve - Offset PV Temp 9  | -40.0-99.0 | °C          |
| 433425 | PV Temp. Regulator Setpoint Curve - Temp 1<br>This is the source temperature. For example, if BT1 Outdoor Temperature is chosen as source and "Temp 1" above is set to -30, the Offset Temp 1 will shift according to this parameter. | -40.0-99.0 | °C          |
| 433426 | PV Temp. Regulator Setpoint Curve - Temp 2  | -40.0-99.0 | °C          |
| 433427 | PV Temp. Regulator Setpoint Curve - Temp 3  | -40.0-99.0 | °C          |
| 433428 | PV Temp. Regulator Setpoint Curve - Temp 4  | -40.0-99.0 | °C          |
| 433429 | PV Temp. Regulator Setpoint Curve - Temp 5  | -40.0-99.0 | °C          |
| 433430 | PV Temp. Regulator Setpoint Curve - Temp 6  | -40.0-99.0 | °C          |
| 433431 | PV Temp. Regulator Setpoint Curve - Temp 7  | -40.0-99.0 | °C          |
| 433432 | PV Temp. Regulator Setpoint Curve - Temp 8  | -40.0-99.0 | °C          |
| 433433 | PV Temp. Regulator Setpoint Curve - Temp 9  | -40.0-99.0 | °C          |
| 433441 | T.BP1/T.BF1 (SA) Setpoint Offset Curve - Pressure/Flow 1  | -9999-9999 | Pa (or l/s) |
| 433442 | T.BP1/T.BF1 (SA) Setpoint Offset Curve - Pressure/Flow 2  | -9999-9999 | Pa (or l/s) |
| 433443 | T.BP1/T.BF1 (SA) Setpoint Offset Curve - Pressure/Flow 3  | -9999-9999 | Pa (or l/s) |



| Modbus | Designation  | Min/Max    | Note        |
|--------|--|------------|-------------|
| 433444 | T.BP1/T.BF1 (SA) Setpoint Offset Curve - Pressure/Flow 4   | -9999-9999 | Pa (or l/s) |
| 433445 | T.BP1/T.BF1 (SA) Setpoint Offset Curve - Pressure/Flow 5   | -9999-9999 | Pa (or l/s) |
| 433446 | T.BP1/T.BF1 (SA) Setpoint Offset Curve - Pressure/Flow 6   | -9999-9999 | Pa (or l/s) |
| 433447 | T.BP1/T.BF1 (SA) Setpoint Offset Curve - Pressure/Flow 7   | -9999-9999 | Pa (or l/s) |
| 433448 | T.BP1/T.BF1 (SA) Setpoint Offset Curve - Pressure/Flow 8   | -9999-9999 | Pa (or l/s) |
| 433449 | T.BP1/T.BF1 (SA) Setpoint Offset Curve - Pressure/Flow 9   | -9999-9999 | Pa (or l/s) |
| 433457 | T.BP1/T.BF1 (SA) Setpoint Offset Curve - Temp 1  | -40.0-99.0 | °C          |
| 433458 | T.BP1/T.BF1 (SA) Setpoint Offset Curve - Temp 2  | -40.0-99.0 | °C          |
| 433459 | T.BP1/T.BF1 (SA) Setpoint Offset Curve - Temp 3  | -40.0-99.0 | °C          |
| 433460 | T.BP1/T.BF1 (SA) Setpoint Offset Curve - Temp 4  | -40.0-99.0 | °C          |
| 433461 | T.BP1/T.BF1 (SA) Setpoint Offset Curve - Temp 5  | -40.0-99.0 | °C          |
| 433462 | T.BP1/T.BF1 (SA) Setpoint Offset Curve - Temp 6  | -40.0-99.0 | °C          |
| 433463 | T.BP1/T.BF1 (SA) Setpoint Offset Curve - Temp 7  | -40.0-99.0 | °C          |
| 433464 | T.BP1/T.BF1 (SA) Setpoint Offset Curve - Temp 8  | -40.0-99.0 | °C          |
| 433465 | T.BP1/T.BF1 (SA) Setpoint Offset Curve - Temp 9  | -40.0-99.0 | °C          |
| 433473 | F.BP1/F.BF1 (SA) Setpoint Offset Curve - Pressure/Flow 1   | -9999-9999 | Pa (or l/s) |
| 433474 | F.BP1/F.BF1 (SA) Setpoint Offset Curve - Pressure/Flow 2   | -9999-9999 | Pa (or l/s) |
| 433475 | F.BP1/F.BF1 (SA) Setpoint Offset Curve - Pressure/Flow 3   | -9999-9999 | Pa (or l/s) |
| 433476 | F.BP1/F.BF1 (SA) Setpoint Offset Curve - Pressure/Flow 4   | -9999-9999 | Pa (or l/s) |
| 433477 | F.BP1/F.BF1 (SA) Setpoint Offset Curve - Pressure/Flow 5   | -9999-9999 | Pa (or l/s) |
| 433478 | F.BP1/F.BF1 (SA) Setpoint Offset Curve - Pressure/Flow 6   | -9999-9999 | Pa (or l/s) |
| 433479 | F.BP1/F.BF1 (SA) Setpoint Offset Curve - Pressure/Flow 7   | -9999-9999 | Pa (or l/s) |
| 433480 | F.BP1/F.BF1 (SA) Setpoint Offset Curve - Pressure/Flow 8   | -9999-9999 | Pa (or l/s) |
| 433481 | F.BP1/F.BF1 (SA) Setpoint Offset Curve - Pressure/Flow 9   | -9999-9999 | Pa (or l/s) |
| 433489 | F.BP1/F.BF1 (EA) Setpoint Offset Curve - Temp 1  | -40.0-99.0 | °C          |
| 433490 | F.BP1/F.BF1 (EA) Setpoint Offset Curve - Temp 2  | -40.0-99.0 | °C          |
| 433491 | F.BP1/F.BF1 (EA) Setpoint Offset Curve - Temp 3  | -40.0-99.0 | °C          |
| 433492 | F.BP1/F.BF1 (EA) Setpoint Offset Curve - Temp 4  | -40.0-99.0 | °C          |
| 433493 | F.BP1/F.BF1 (EA) Setpoint Offset Curve - Temp 5  | -40.0-99.0 | °C          |
| 433494 | F.BP1/F.BF1 (EA) Setpoint Offset Curve - Temp 6  | -40.0-99.0 | °C          |
| 433495 | F.BP1/F.BF1 (EA) Setpoint Offset Curve - Temp 7  | -40.0-99.0 | °C          |
| 433496 | F.BP1/F.BF1 (EA) Setpoint Offset Curve - Temp 8  | -40.0-99.0 | °C          |
| 433497 | F.BP1/F.BF1 (EA) Setpoint Offset Curve - Temp 9  | -40.0-99.0 | °C          |
| 433505 | Time Channel Monday - Start Minute   | 0-59       | min         |
| 433506 | Time Channel Monday - Stop Minute  | 0-59       | min         |
| 433507 | Time Channel Tuesday - Start Minute  | 0-59       | min         |
| 433508 | Time Channel Tuesday - Stop Minute   | 0-59       | min         |
| 433509 | Time Channel Wednesday - Start Minute  | 0-59       | min         |
| 433510 | Time Channel Wednesday - Stop Minute   | 0-59       | min         |
| 433511 | Time Channel Thursday - Start Minute   | 0-59       | min         |
| 433512 | Time Channel Thursday - Stop Minute  | 0-59       | min         |
| 433513 | Time Channel Friday - Start Minute   | 0-59       | min         |
| 433514 | Time Channel Friday - Stop Minute  | 0-59       | min         |
| 433515 | Time Channel Saturday - Start Minute   | 0-59       | min         |
| 433516 | Time Channel Saturday - Stop Minute  | 0-59       | min         |
| 433517 | Time Channel Sunday - Start Minute   | 0-59       | min         |
| 433518 | Time Channel Sunday - Stop Minute  | 0-59       | min         |
| 433522 | F.BF1 - (EA) Air Flow Regulator - Deviation Alarm Level  | 0-9999     | l/s         |
| 433523 | T.BF1 - (SA) Air Flow Regulator - Deviation Alarm Level  | 0-9999     | l/s         |
| 433526 | Electric Heater Turnoff Due To Low T.GQ1 Value (SA)<br>Heater will turn off if T.GQ1 Value is below this value | 0-100      | %           |

| Modbus         | Designation   | Min/Max     | Note   |
|----------------|---|-------------|--------|
| 433527         | <b>T.GQ1 Flow Reduction Function - %/h</b><br>If TX1 (rotary HX) runs at full speed during the Set Time, the T.BF1 (SA) Setpoint will be decreased with %/h but never lower than the Min. Value   | 0-100       | %/h    |
| 433528         | <b>T.GQ1 Flow Reduction Function - Min. Value</b><br>If TX1 (rotary HX) runs at full speed during the Set Time, the T.BF1 (SA) Setpoint will be decreased with %/h but never lower than the Min. Value<br>(0 = Function not in use)     | 0-100       | %      |
| 433529         | <b>Night Cooling Function - F.BT1 Temperature Limit</b><br>If Sampled F.BT1 Value is higher than this value at midnight, the Night Cooling Function will be activated<br>(200 = Function is not in use)                                 | 0-200       | °C     |
| 433530         | <b>Sampled F.BT1 Value</b><br><b>(Also accessible via Modbus parameter 300762)</b><br>The temperature of F.BT1 will be sampled when the Air Handling Unit stops. Used together with the Night Cooling Function                          | -55.0-125.0 | °C     |
| 433531         | <b>T.GQ1 Flow Reduction Function - Set Time</b><br>If TX1 (rotary HX) runs at full speed during the Set Time, the T.BF1 (SA) Setpoint will be decreased with %/h but never lower than the Min. Value                                    | 0-1440      | min    |
| 433532         | <b>T.BT1 Min/Max Limitation - Cycle Time</b><br>0 = Function not in use   | 0-60        | min    |
| 433533         | <b>T.BT1 Min/Max Limitation - Min. Value</b>  | 0-20        | °C     |
| 433535         | <b>T.BT1 Min/Max Limitation - Max. Value</b>  | 0-20        | °C     |
| 433541         | <b>F.BP3 (HX High Pressure) - Deviation Alarm Level</b><br>Used when F.BP3 is analogue  | 0-9999      | Pa     |
| 433586         | <b>F.QN1 Winter Close Function when BT1 &lt; this value (GMXXL Only)</b><br>Start the F.QN1 Winter Close Function when outdoor sensor is colder than this value. This function will force F.QN1 to keep closed when it is cold outside. | -55.0-125.0 | °C     |
| 433921.<br>16H | <b>Air Handling Unit Identity</b><br>String containing 16 letters   | ABCDEFGH... | String |