

# Fastighetssystem BMS

BMS över Modbus (RS485)

Mjukvara display: 2017-01-01 till 2020-02-19

BMS över Modbus (TCP)

Mjukvara display: 2020-09-17 eller senare

Registernumren startar ovanför standard modbus (större än 49999)

Läsning: Analog Output Holding Registers

Funktionskod:0x03H / 3

Skrivning: Analog Output Holding Registers

Funktionskod:0x10H / 16

Offset: 0

Max register per skickning: 100.

# Building Management System (BMS)

BMS through Modbus (RS485)

Display software: 2017-01-01 to 2020-02-19

BMS through Modbus (TCP)

Display software: 2020-09-17 or later

Register number starts above standard modbus (larger than 49999)

Reading: Analogue Output Holding Registers

Function code: 0x03H / 3

Writing: Analogue Output Holding Registers

Function code:0x10H / 16

Offset: 0

Max register per transmission: 100.

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| BMS Register | Svenska                                                                                                | English                                                                                                  | Signed | Read/Write | Max   | Min   | Step  | Visible | Bit | Factor |
|--------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------|------------|-------|-------|-------|---------|-----|--------|
| 61500        | Varmvatten mode<br><i>0=Ekonomi</i><br><i>1=Normal</i><br><i>2=Komfort</i><br><i>3=Manuell</i>         | Hot water mode<br>0=Ecomony<br>1=Normal<br>2=Comfort<br>3=Customized                                     | 1      | RW         | 60000 | 60001 | 60002 | 62500   | 0   | 1      |
| 61501        | Manuell Stoptemp Varmvatten                                                                            | Manual Stop temperature hot water                                                                        | 1      | RW         | 60003 | 60004 | 60005 | 62500   | 1   | 0,1    |
| 61502        | Inställning uttemperatur varmvatten                                                                    | Setting outlet temperature hot water                                                                     | 1      | RW         | 60006 | 60007 | 60008 | 62500   | 2   | 0,1    |
| 61503        | Extra varmvatten timer                                                                                 | Extra hot water timer                                                                                    | 1      | RW         | 60009 | 60010 | 60011 | 62500   | 3   | 0,5    |
| 61504        | Max tid Värme                                                                                          | Maximum time heating Heat pump                                                                           | 1      | RW         | 60012 | 60013 | 60014 | 62500   | 4   | 1      |
| 61505        | Max tid Varmvatten                                                                                     | Maximum time hot water                                                                                   | 1      | RW         | 60015 | 60016 | 60017 | 62500   | 5   | 1      |
| 61506        | Min RPS Varmvatten                                                                                     | Minimum RPS hot water                                                                                    | 1      | RW         | 60018 | 60019 | 60020 | 62500   | 6   | 0,1    |
| 61507        | Min RPS Pool                                                                                           | Minimum RPS Pool                                                                                         | 1      | RW         | 60021 | 60022 | 60023 | 62500   | 7   | 0,1    |
| 61508        | Antal semesterdagar timer                                                                              | Number of vacation days timer                                                                            | 1      | RW         | 60024 | 60025 | 60026 | 62500   | 8   | 1      |
| 61509        | Värmesystem 1: Inställning rumstemp                                                                    | Heating system 1: Setting room temp                                                                      | 1      | RW         | 60027 | 60028 | 60029 | 62500   | 9   | 0,1    |
| 61510        | Värmesystem 2: Inställning rumstemp                                                                    | Heating system 2: Setting room temp                                                                      | 1      | RW         | 60030 | 60031 | 60032 | 62500   | 10  | 0,1    |
| 61511        | Värmesystem 3: Inställning rumstemp                                                                    | Heating system 3: Setting room temp                                                                      | 1      | RW         | 60033 | 60034 | 60035 | 62500   | 11  | 0,1    |
| 61512        | Värmesystem 4: Inställning rumstemp                                                                    | Heating system 4: Setting room temp                                                                      | 1      | RW         | 60036 | 60037 | 60038 | 62500   | 12  | 0,1    |
| 61513        | Värmesystem 1: Ändra lutning                                                                           | Heating system 1: Change inclination                                                                     | 1      | RW         | 60039 | 60040 | 60041 | 62500   | 13  | 0,1    |
| 61514        | Värmesystem 2: Ändra lutning                                                                           | Heating system 2: Change inclination                                                                     | 1      | RW         | 60042 | 60043 | 60044 | 62500   | 14  | 0,1    |
| 61515        | Värmesystem 3: Ändra lutning                                                                           | Heating system 3: Change inclination                                                                     | 1      | RW         | 60045 | 60046 | 60047 | 62500   | 15  | 0,1    |
| 61516        | Värmesystem 4: Ändra lutning                                                                           | Heating system 4: Change inclination                                                                     | 1      | RW         | 60048 | 60049 | 60050 | 62501   | 0   | 0,1    |
| 61517        | Värmesystem 1: Ändra justering                                                                         | Heating system 1: Change adjustment                                                                      | 1      | RW         | 60051 | 60052 | 60053 | 62501   | 1   | 0,1    |
| 61518        | Värmesystem 2: Ändra justering                                                                         | Heating system 2: Change adjustment                                                                      | 1      | RW         | 60054 | 60055 | 60056 | 62501   | 2   | 0,1    |
| 61519        | Värmesystem 3: Ändra justering                                                                         | Heating system 3: Change adjustment                                                                      | 1      | RW         | 60057 | 60058 | 60059 | 62501   | 3   | 0,1    |
| 61520        | Värmesystem 4: Ändra justering<br>Värmepump 1 (A1): Spärrad<br><i>0=Blockerad</i><br><i>1=Tillåten</i> | Heating system 4: Change adjustment<br>Heat pump 1 (A1): Blocked<br><i>0=Blocked</i><br><i>1=Allowed</i> | 1      | RW         | 60060 | 60061 | 60062 | 62501   | 4   | 0,1    |
| 61521        | Värmepump 2 (A2): Spärrad<br><i>0=Blockerad</i><br><i>1=Tillåten</i>                                   | Heat pump 2 (A2): Blocked<br><i>0=Blocked</i><br><i>1=Allowed</i>                                        | 1      | RW         | 60063 | 60064 | 60065 | 62501   | 5   | 1      |
| 61522        | Värmepump 3 (A3): Spärrad<br><i>0=Blockerad</i><br><i>1=Tillåten</i>                                   | Heat pump 3 (A3): Blocked<br><i>0=Blocked</i><br><i>1=Allowed</i>                                        | 1      | RW         | 60066 | 60067 | 60068 | 62501   | 6   | 1      |
| 61523        | Värmepump 4 (A4): Spärrad<br><i>0=Blockerad</i><br><i>1=Tillåten</i>                                   | Heat pump 4 (A4): Blocked<br><i>0=Blocked</i><br><i>1=Allowed</i>                                        | 1      | RW         | 60069 | 60070 | 60071 | 62501   | 7   | 1      |
| 61524        | Värmepump 5 (A5): Spärrad<br><i>0=Blockerad</i><br><i>1=Tillåten</i>                                   | Heat pump 5 (A5): Blocked<br><i>0=Blocked</i><br><i>1=Allowed</i>                                        | 1      | RW         | 60072 | 60073 | 60074 | 62501   | 8   | 1      |
| 61525        | Värmepump 6 (A6): Spärrad<br><i>0=Blockerad</i><br><i>1=Tillåten</i>                                   | Heat pump 6 (A6): Blocked<br><i>0=Blocked</i><br><i>1=Allowed</i>                                        | 1      | RW         | 60075 | 60076 | 60077 | 62501   | 9   | 1      |
| 61526        | Värmepump 7 (A7): Spärrad<br><i>0=Blockerad</i><br><i>1=Tillåten</i>                                   | Heat pump 7 (A7): Blocked<br><i>0=Blocked</i><br><i>1=Allowed</i>                                        | 1      | RW         | 60078 | 60079 | 60080 | 62501   | 10  | 1      |
| 61527        | Värmepump 8 (A8): Spärrad<br><i>0=Blockerad</i><br><i>1=Tillåten</i>                                   | Heat pump 8 (A8): Blocked<br><i>0=Blocked</i><br><i>1=Allowed</i>                                        | 1      | RW         | 60081 | 60082 | 60083 | 62501   | 11  | 1      |
| 61528        | Värmepump 9 (A9): Spärrad<br><i>0=Blockerad</i><br><i>1=Tillåten</i>                                   | Heat pump 9 (A9): Blocked<br><i>0=Blocked</i><br><i>1=Allowed</i>                                        | 1      | RW         | 60084 | 60085 | 60086 | 62501   | 12  | 1      |
| 61529        | Värmepump 10 (A10): Spärrad<br><i>0=Blockerad</i><br><i>1=Tillåten</i>                                 | Heat pump 10 (A10): Blocked<br><i>0=Blocked</i><br><i>1=Allowed</i>                                      | 1      | RW         | 60087 | 60088 | 60089 | 62501   | 13  | 1      |
| 61530        | Värmepump 10 (A10): Spärrad<br><i>0=Blockerad</i><br><i>1=Tillåten</i>                                 | Heat pump 10 (A10): Blocked<br><i>0=Blocked</i><br><i>1=Allowed</i>                                      | 1      | RW         | 60090 | 60091 | 60092 | 62501   | 14  | 1      |
| 61531        | Pool: Stoptemperatur inställning                                                                       | Pool: Stop Temp setting                                                                                  | 1      | RW         | 60093 | 60094 | 60095 | 62501   | 15  | 0,1    |
| 61532        | Pool: Max tid                                                                                          | Pool: Maximum time                                                                                       | 1      | RW         | 60096 | 60097 | 60098 | 62502   | 0   | 1      |
| 61533        | Pool: Startdifferens                                                                                   | Pool: Start difference                                                                                   | 1      | RW         | 60099 | 60100 | 60101 | 62502   | 1   | 0,1    |
| 61534        | Värmesystem 1: Max framledning °C                                                                      | Heating system 1: Max Primary flow ° C                                                                   | 1      | RW         | 60102 | 60103 | 60104 | 62502   | 2   | 0,1    |
| 61535        | Värmesystem 2: Max framledning °C                                                                      | Heating system 2: Max Primary flow ° C                                                                   | 1      | RW         | 60105 | 60106 | 60107 | 62502   | 3   | 0,1    |
| 61536        | Värmesystem 3: Max framledning °C                                                                      | Heating system 3: Max Primary flow ° C                                                                   | 1      | RW         | 60108 | 60109 | 60110 | 62502   | 4   | 0,1    |
| 61537        | Värmesystem 4: Max framledning °C                                                                      | Heating system 4: Max Primary flow ° C                                                                   | 1      | RW         | 60111 | 60112 | 60113 | 62502   | 5   | 0,1    |
| 61538        | Värmesystem 1: Min framledning °C<br><i>140=Från</i>                                                   | Heating system 1: Min primary flow ° C<br><i>140=Off</i>                                                 | 1      | RW         | 60114 | 60115 | 60116 | 62502   | 6   | 0,1    |

| BMS Register | Svenska                                               | English                                                   | Signed | Read/Write | Max   | Min   | Step  | Visible | Bit | Factor |
|--------------|-------------------------------------------------------|-----------------------------------------------------------|--------|------------|-------|-------|-------|---------|-----|--------|
| 61539        | Värmesystem 2: Min framledning °C<br>140=Från         | Heating system 2: Min primary flow ° C<br>140=Off         | 1      | RW         | 60117 | 60118 | 60119 | 62502   | 7   | 0,1    |
| 61540        | Värmesystem 3: Min framledning °C<br>140=Från         | Heating system 3: Min primary flow ° C<br>140=Off         | 1      | RW         | 60120 | 60121 | 60122 | 62502   | 8   | 0,1    |
| 61541        | Värmesystem 4: Min framledning °C<br>140=Från         | Heating system 4: Min primary flow ° C<br>140=Off         | 1      | RW         | 60123 | 60124 | 60125 | 62502   | 9   | 0,1    |
| 61542        | Värmesystem1:Värme mode<br>0=Auto<br>1=Till<br>2=Från | Heating system 1: Heating mode<br>0=Auto<br>1=On<br>2=Off | 1      | RW         | 60126 | 60127 | 60128 | 62502   | 10  | 1      |
| 61543        | Värmesystem2:Värme mode<br>0=Auto<br>1=Till<br>2=Från | Heating system 2: Heating mode<br>0=Auto<br>1=On<br>2=Off | 1      | RW         | 60129 | 60130 | 60131 | 62502   | 11  | 1      |
| 61544        | Värmesystem3:Värme mode<br>0=Auto<br>1=Till<br>2=Från | Heating system 3: Heating mode<br>0=Auto<br>1=On<br>2=Off | 1      | RW         | 60132 | 60133 | 60134 | 62502   | 12  | 1      |
| 61545        | Värmesystem4:Värme mode<br>0=Auto<br>1=Till<br>2=Från | Heating system 4: Heating mode<br>0=Auto<br>1=On<br>2=Off | 1      | RW         | 60135 | 60136 | 60137 | 62502   | 13  | 1      |
| 61546        | Värmesystem 1: Värme från, ute °C                     | Heating system 1: Heating off, out ° C                    | 1      | RW         | 60138 | 60139 | 60140 | 62502   | 14  | 0,1    |
| 61547        | Värmesystem 2: Värme från, ute °C                     | Heating system 2: Heating off, out ° C                    | 1      | RW         | 60141 | 60142 | 60143 | 62502   | 15  | 0,1    |
| 61548        | Värmesystem 3: Värme från, ute °C                     | Heating system 3: Heating off, out ° C                    | 1      | RW         | 60144 | 60145 | 60146 | 62503   | 0   | 0,1    |
| 61549        | Värmesystem 4: Värme från, ute °C                     | Heating system 4: Heating off, out ° C                    | 1      | RW         | 60147 | 60148 | 60149 | 62503   | 1   | 0,1    |
| 61550        | Värmesystem 1: Värme från, tid                        | Heating system 1: Heating off time                        | 1      | RW         | 60150 | 60151 | 60152 | 62503   | 2   | 1      |
| 61551        | Värmesystem 2: Värme från, tid                        | Heating system 2: Heating off time                        | 1      | RW         | 60153 | 60154 | 60155 | 62503   | 3   | 1      |
| 61552        | Värmesystem 3: Värme från, tid                        | Heating system 3: Heating off time                        | 1      | RW         | 60156 | 60157 | 60158 | 62503   | 4   | 1      |
| 61553        | Värmesystem 4: Värme från, tid                        | Heating system 4: Heating off time                        | 1      | RW         | 60159 | 60160 | 60161 | 62503   | 5   | 1      |
| 61554        | Värmesystem 1: Rumstemp nattsänkning                  | Heating system 1: Room temp night reduction               | 1      | RW         | 60162 | 60163 | 60164 | 62503   | 6   | 0,1    |
| 61555        | Värmesystem 2: Rumstemp nattsänkning                  | Heating system 2: Room temp night reduction               | 1      | RW         | 60165 | 60166 | 60167 | 62503   | 7   | 0,1    |
| 61556        | Värmesystem 3: Rumstemp nattsänkning                  | Heating system 3: Room temp night reduction               | 1      | RW         | 60168 | 60169 | 60170 | 62503   | 8   | 0,1    |
| 61557        | Värmesystem 4: Rumstemp nattsänkning                  | Heating system 4: Room temp night reduction               | 1      | RW         | 60171 | 60172 | 60173 | 62503   | 9   | 0,1    |
| 61558        | Värmesystem 1: Framledning Nattsänkning               | Heating system 1: Primary flow Night reduction            | 1      | RW         | 60174 | 60175 | 60176 | 62503   | 10  | 0,1    |
| 61559        | Värmesystem 2: Framledning Nattsänkning               | Heating system 2: Primary flow Night reduction            | 1      | RW         | 60177 | 60178 | 60179 | 62503   | 11  | 0,1    |
| 61560        | Värmesystem 3: Framledning Nattsänkning               | Heating system 3: Primary flow Night reduction            | 1      | RW         | 60180 | 60181 | 60182 | 62503   | 12  | 0,1    |
| 61561        | Värmesystem 4: Framledning Nattsänkning               | Heating system 4: Primary flow Night reduction            | 1      | RW         | 60183 | 60184 | 60185 | 62503   | 13  | 0,1    |
| 61562        | Värmesystem 1: Utetemp nattsänkning av                | Heating system 1: Outdoor temp night reduction            | 1      | RW         | 60186 | 60187 | 60188 | 62503   | 14  | 0,1    |
| 61563        | Värmesystem 2: Utetemp nattsänkning av                | Heating system 2: Outdoor temp night reduction            | 1      | RW         | 60189 | 60190 | 60191 | 62503   | 15  | 0,1    |
| 61564        | Värmesystem 3: Utetemp nattsänkning av                | Heating system 3: Outdoor temp night reduction            | 1      | RW         | 60192 | 60193 | 60194 | 62504   | 0   | 0,1    |
| 61565        | Värmesystem 4: Utetemp nattsänkning av                | Heating system 4: Outdoor temp night reduction            | 1      | RW         | 60195 | 60196 | 60197 | 62504   | 1   | 0,1    |
| 61566        | Värmesystem 1: Larm låg rumstemp                      | Heating system 1: Alarm low room temperature              | 1      | RW         | 60198 | 60199 | 60200 | 62504   | 2   | 0,1    |
| 61567        | Värmesystem 2: Larm låg rumstemp                      | Heating system 2: Alarm low room temperature              | 1      | RW         | 60201 | 60202 | 60203 | 62504   | 3   | 0,1    |
| 61568        | Värmesystem 3: Larm låg rumstemp                      | Heating system 3: Alarm low room temperature              | 1      | RW         | 60204 | 60205 | 60206 | 62504   | 4   | 0,1    |
| 61569        | Värmesystem 4: Larm låg rumstemp                      | Heating system 4: Alarm low room temperature              | 1      | RW         | 60207 | 60208 | 60209 | 62504   | 5   | 0,1    |
| 61570        | Radiatorpump inställning %                            | Radiator pump setting %                                   | 1      | RW         | 60210 | 60211 | 60212 | 62504   | 6   | 1      |
| 61571        | Start vid gradminut                                   | Start at degree minute                                    | 1      | RW         | 60213 | 60214 | 60215 | 62504   | 7   | 1      |
| 61572        | Värmepump 1 (A1): Max RPS                             | Heat pump 1 (A1): Max RPS                                 | 1      | RW         | 60216 | 60217 | 60218 | 62504   | 8   | 0,1    |
| 61573        | Värmepump 2 (A2): Max RPS                             | Heat pump 2 (A2): Max RPS                                 | 1      | RW         | 60219 | 60220 | 60221 | 62504   | 9   | 0,1    |
| 61574        | Värmepump 3 (A3): Max RPS                             | Heat pump 3 (A3): Max RPS                                 | 1      | RW         | 60222 | 60223 | 60224 | 62504   | 10  | 0,1    |
| 61575        | Värmepump 4 (A4): Max RPS                             | Heat pump 4 (A4): Max RPS                                 | 1      | RW         | 60225 | 60226 | 60227 | 62504   | 11  | 0,1    |
| 61576        | Värmepump 5 (A5): Max RPS                             | Heat pump 5 (A5): Max RPS                                 | 1      | RW         | 60228 | 60229 | 60230 | 62504   | 12  | 0,1    |
| 61577        | Värmepump 6 (A6): Max RPS                             | Heat pump 6 (A6): Max RPS                                 | 1      | RW         | 60231 | 60232 | 60233 | 62504   | 13  | 0,1    |
| 61578        | Värmepump 7 (A7): Max RPS                             | Heat pump 7 (A7): Max RPS                                 | 1      | RW         | 60234 | 60235 | 60236 | 62504   | 14  | 0,1    |
| 61579        | Värmepump 8 (A8): Max RPS                             | Heat pump 8 (A8): Max RPS                                 | 1      | RW         | 60237 | 60238 | 60239 | 62504   | 15  | 0,1    |
| 61580        | Värmepump 9 (A9): Max RPS                             | Heat pump 9 (A9): Max RPS                                 | 1      | RW         | 60240 | 60241 | 60242 | 62505   | 0   | 0,1    |
| 61581        | Värmepump 10 (A10): Max RPS                           | Heat pump 10 (A10): Max RPS                               | 1      | RW         | 60243 | 60244 | 60245 | 62505   | 1   | 0,1    |
| 61582        | E1: Start spetsvärme, gradminut                       | E1: Start add heat, degree minute                         | 1      | RW         | 60246 | 60247 | 60248 | 62505   | 2   | 1      |
| 61583        | Extern panna diff                                     | External boiler diff                                      | 1      | RW         | 60249 | 60250 | 60251 | 62505   | 3   | 0,1    |
| 61584        | Blockering spetsvärme ute °C                          | Blocking additional heat outdoor temp °C                  | 1      | RW         | 60252 | 60253 | 60254 | 62505   | 4   | 0,1    |
| 61585        | Panna, öppna shunt °C                                 | Boiler, open mixing valve °C                              | 1      | RW         | 60255 | 60256 | 60257 | 62505   | 5   | 0,1    |
| 61586        | Fördröjning stopp ext panna                           | Delay stop external boiler                                | 1      | RW         | 60258 | 60259 | 60260 | 62505   | 6   | 1      |

| BMS Register | Svenska                                                                                                                                                                              | English                                                                                   | Signed | Read/Write | Max   | Min   | Step  | Visible | Bit | Factor |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------|------------|-------|-------|-------|---------|-----|--------|
| 61587        | Extern panna status<br><i>0=Auto</i><br><i>1=Till</i><br><i>2=Från</i>                                                                                                               | External boiler mode<br><i>0=Auto</i><br><i>1=On</i><br><i>2=Off</i>                      | 1      | RW         | 60261 | 60262 | 60263 | 62505   | 7   | 1      |
| 61588        | EVK: Öppna shunt grader                                                                                                                                                              | EHS: Open mixing valve degrees                                                            | 1      | RW         | 60264 | 60265 | 60266 | 62505   | 8   | 0,1    |
| 61589        | EVK: Start/stopp diff                                                                                                                                                                | EHS: Start / stop diff                                                                    | 1      | RW         | 60267 | 60268 | 60269 | 62505   | 9   | 1      |
| 61590        | Max elpatron kW/Nedre                                                                                                                                                                | Max immersion heater kW / Lower                                                           | 1      | RW         | 60270 | 60271 | 60272 | 62505   | 10  | 0,1    |
| 61591        | Max elpatron VV kW/Övre                                                                                                                                                              | Max immersion heater DHW kW / Upper                                                       | 1      | RW         | 60273 | 60274 | 60275 | 62505   | 11  | 0,1    |
| 61602        | Värmesystem 1: Semestersänkning                                                                                                                                                      | Heating system 1: Holiday reduction                                                       | 1      | RW         | 60306 | 60307 | 60308 | 62506   | 6   | 0,1    |
| 61603        | Värmesystem 2: Semestersänkning                                                                                                                                                      | Heating system 2: Holiday reduction                                                       | 1      | RW         | 60309 | 60310 | 60311 | 62506   | 7   | 0,1    |
| 61604        | Värmesystem 3: Semestersänkning                                                                                                                                                      | Heating system 3: Holiday reduction                                                       | 1      | RW         | 60312 | 60313 | 60314 | 62506   | 8   | 0,1    |
| 61605        | Värmesystem 4: Semestersänkning                                                                                                                                                      | Heating system 4: Holiday reduction                                                       | 1      | RW         | 60315 | 60316 | 60317 | 62506   | 9   | 0,1    |
| 61606        | Värmesystem 1: Framledning Semestersänkning                                                                                                                                          | Heating system 1: Primary flow Holiday reduction                                          | 1      | RW         | 60318 | 60319 | 60320 | 62506   | 10  | 0,1    |
| 61607        | Värmesystem 2: Framledning Semestersänkning                                                                                                                                          | Heating system 2: Primary flow Holiday reduction                                          | 1      | RW         | 60321 | 60322 | 60323 | 62506   | 11  | 0,1    |
| 61608        | Värmesystem 3: Framledning Semestersänkning                                                                                                                                          | Heating system 3: Primary flow Holiday reduction                                          | 1      | RW         | 60324 | 60325 | 60326 | 62506   | 12  | 0,1    |
| 61609        | Värmesystem 4: Framledning Semestersänkning                                                                                                                                          | Heating system 4: Primary flow Holiday reduction                                          | 1      | RW         | 60327 | 60328 | 60329 | 62506   | 13  | 0,1    |
| 61610        | Differens värmepump, gradminuter                                                                                                                                                     | Heat pump : Diff Heat pump , degree minute                                                | 1      | RW         | 60330 | 60331 | 60332 | 62506   | 14  | 1      |
| 61611        | Differens mellan värmepumpar, gradminuter                                                                                                                                            | Heat pump : Delay between Heat pump                                                       | 1      | RW         | 60333 | 60334 | 60335 | 62506   | 15  | 1      |
| 61612        | E1: Diff spetsvärme, gradminut                                                                                                                                                       | E1: Diff add heat, degree minute                                                          | 1      | RW         | 60336 | 60337 | 60338 | 62507   | 0   | 1      |
| 61613        | E2: Start 0-10V, gradminut                                                                                                                                                           | E2: Start 0-10V degree minute                                                             | 1      | RW         | 60339 | 60340 | 60341 | 62507   | 1   | 1      |
| 61614        | E2: Diff 0-10V, gradminut                                                                                                                                                            | E2: Diff 0-10V, degree minute                                                             | 1      | RW         | 60342 | 60343 | 60344 | 62507   | 2   | 1      |
| 61615        | E3: Start EcoMiniEI, gradminut                                                                                                                                                       | E3: Start EcoMiniEI, degree minute                                                        | 1      | RW         | 60345 | 60346 | 60347 | 62507   | 3   | 1      |
| 61616        | E3: Antal steg EcoMiniEI, värme                                                                                                                                                      | E3: Number of steps heating                                                               | 1      | RW         | 60348 | 60349 | 60350 | 62507   | 4   | 1      |
| 61617        | E3: Antal steg EcoMiniEI, VV                                                                                                                                                         | E3: Number of steps DHW                                                                   | 1      | RW         | 60351 | 60352 | 60353 | 62507   | 5   | 1      |
| 61618        | E3: Diff steg EcoMiniEI                                                                                                                                                              | E3: Diff step EcoMiniEI                                                                   | 1      | RW         | 60354 | 60355 | 60356 | 62507   | 6   | 1      |
| 61619        | E1: Fördröjning spetsvärme E1                                                                                                                                                        | E1: Delay add heat E1                                                                     | 1      | RW         | 60357 | 60358 | 60359 | 62507   | 7   | 1      |
| 61620        | E2: Fördröjning spetsvärme 0-10V                                                                                                                                                     | E2: Delay add heat 0-10V                                                                  | 1      | RW         | 60360 | 60361 | 60362 | 62507   | 8   | 1      |
| 61621        | E2: Diff 0-10V fördröjning                                                                                                                                                           | E2: Diff 0-10V delay                                                                      | 1      | RW         | 60363 | 60364 | 60365 | 62507   | 9   | 1      |
| 61622        | E3: Fördröjning EcoMiniEI                                                                                                                                                            | E3: Delay EcoMiniEI                                                                       | 1      | RW         | 60366 | 60367 | 60368 | 62507   | 10  | 1      |
| 61623        | E3: Fördröjning EcoMiniEI steg                                                                                                                                                       | E3: Delay EcoMiniEI step                                                                  | 1      | RW         | 60369 | 60370 | 60371 | 62507   | 11  | 1      |
| 61624        | Frikyla: Framledning vid utetemp +20 °C                                                                                                                                              | Cooling: Primary flow at the outdoor temperature +20 °C                                   | 1      | RW         | 60372 | 60373 | 60374 | 62507   | 12  | 1      |
| 61625        | Frikyla: Framledning vid utetemp +40 °C                                                                                                                                              | Cooling: Primary flow at the outdoor temperature +40 °C                                   | 1      | RW         | 60375 | 60376 | 60377 | 62507   | 13  | 1      |
| 61626        | Frikyla: Min framledning                                                                                                                                                             | Cooling: Min flow temperature                                                             | 1      | RW         | 60378 | 60379 | 60380 | 62507   | 14  | 1      |
| 61627        | Frikyla: Start frikyla vid övertemp                                                                                                                                                  | Cooling: Start cooling at temperature                                                     | 1      | RW         | 60381 | 60382 | 60383 | 62507   | 15  | 1      |
| 61628        | Frikyla: Stopp frikyla vid övertemp                                                                                                                                                  | Cooling: Stop cooling at temperature                                                      | 1      | RW         | 60384 | 60385 | 60386 | 62508   | 0   | 1      |
| 61629        | Shuntfördröjning inställning<br><i>241=Från</i>                                                                                                                                      | Delay mixing valve setting<br><i>241=Off</i>                                              | 1      | RW         | 60387 | 60388 | 60389 | 62508   | 1   | 1      |
| 61630        | Vedpanna start rökgas<br><i>490=Från</i>                                                                                                                                             | Wood boiler start flue gas<br><i>490=Off</i>                                              | 1      | RW         | 60390 | 60391 | 60392 | 62508   | 2   | 0,1    |
| 61631        | Vedpanna start panntemp                                                                                                                                                              | Wood boiler start boiler temperature                                                      | 1      | RW         | 60393 | 60394 | 60395 | 62508   | 3   | 0,1    |
| 61632        | Vedpanna hysteres                                                                                                                                                                    | Wood boiler hysteresis                                                                    | 1      | RW         | 60396 | 60397 | 60398 | 62508   | 4   | 0,1    |
| 61633        | Elpanna nedre °C                                                                                                                                                                     | Boiler lower °C                                                                           | 1      | RW         | 60399 | 60400 | 60401 | 62508   | 5   | 0,1    |
| 61634        | Elpanna övre °C                                                                                                                                                                      | Boiler upper °C                                                                           | 1      | RW         | 60402 | 60403 | 60404 | 62508   | 6   | 0,1    |
| 61635        | Elpanna spets °C                                                                                                                                                                     | Boiler add heat °C                                                                        | 1      | RW         | 60405 | 60406 | 60407 | 62508   | 7   | 0,1    |
| 61636        | Elpanna extra VV °C                                                                                                                                                                  | Boiler DHW °C                                                                             | 1      | RW         | 60408 | 60409 | 60410 | 62508   | 8   | 0,1    |
| 61637        | Differmostat laddstart temperaturdifferens                                                                                                                                           | Diff thermostat start temp diff                                                           | 1      | RW         | 60411 | 60412 | 60413 | 62508   | 9   | 0,1    |
| 61638        | Differmostat laddstopp temperaturdifferens                                                                                                                                           | Diff thermostat stop temp diff                                                            | 1      | RW         | 60414 | 60415 | 60416 | 62508   | 10  | 0,1    |
| 61639        | Differmostat laddtemperatur                                                                                                                                                          | Diff thermostat charge temperature                                                        | 1      | RW         | 60417 | 60418 | 60419 | 62508   | 11  | 0,1    |
| 61640        | EcoLogic/EcoZenith i550: Sol dt max berg Övriga: Sol borrhåll laddstart diff                                                                                                         | EcoLogic / EcoZenith i550: Solar deltaT max Other: Solar start charge difference          | 1      | RW         | 60420 | 60421 | 60422 | 62508   | 12  | 0,1    |
| 61641        | EcoLogic/EcoZenith i550: Sol dt min berg Övriga: Sol borrhåll laddstopp diff                                                                                                         | EcoLogic / EcoZenith i550: Solar deltaT min Other: Solar stop charge difference           | 1      | RW         | 60423 | 60424 | 60425 | 62508   | 13  | 0,1    |
| 61642        | Sol laddpump min                                                                                                                                                                     | Solar charge pump min                                                                     | 1      | RW         | 60426 | 60427 | 60428 | 62508   | 14  | 1      |
| 61643        | EcoLogic / EcoZenith i550: Sol deltaT max Övriga: Sol laddstart diff                                                                                                                 | EcoLogic / EcoZenith i550: Solar deltaT max borehole Other: Solar borehole charge start d | 1      | RW         | 60429 | 60430 | 60431 | 62508   | 15  | 1      |
| 61644        | EcoLogic/EcoZenith i550: Sol dt min berg Övriga: Sol borrhåll laddstopp diff                                                                                                         | EcoLogic / EcoZenith i550: Solar deltaT min borehole Other: Solar borehole charge stop di | 1      | RW         | 60432 | 60433 | 60434 | 62509   | 0   | 1      |
| 61645        | EcoHeat 400/EcoZenith i250: Sol ladda H-Tank LaddtempGSI/EcoZenith i350: Sol EVK-Tank Laddt                                                                                          | EcoHeat 400 / EcoZenith i250: Solar H-tank charge temp GSI/EcoZenith i350: Solar EHS-ta   | 1      | RW         | 60435 | 60436 | 60437 | 62509   | 1   | 1      |
| 61646        | Sol X-Tank Laddtemp                                                                                                                                                                  | Solar: X-tank charge temp                                                                 | 1      | RW         | 60438 | 60439 | 60440 | 62509   | 2   | 1      |
| 61647        | Sol Eco-Tank Laddtemp                                                                                                                                                                | Solar: Eco-tank charge temp                                                               | 1      | RW         | 60441 | 60442 | 60443 | 62509   | 3   | 1      |
| 61648        | EcoHeat 400/EcoZenith i250: Sol ladda H-Tank start diff GSI/EcoZenith i350: Sol ladda EVK- EcoHeat 400 / EcoZenith i250: Solar charge H-tank start difference GSI/EcoZenith i350: So |                                                                                           | 1      | RW         | 60444 | 60445 | 60446 | 62509   | 4   | 1      |
| 61649        | EcoHeat 400/EcoZenith i250: Sol ladda H-Tank stopp diffGSI/EcoZenith i350: Sol ladda EVK EcoHeat 400 / EcoZenith i250: Solar H-tank charge stop difference GSI/EcoZenith i350: Sol   |                                                                                           | 1      | RW         | 60447 | 60448 | 60449 | 62509   | 5   | 1      |
| 61650        | EcoHeat 400/EcoZenith i250: Sol ladda H-Tank stopp diffGSI/EcoZenith i350: Sol ladda EVK EcoHeat 400 / EcoZenith i250: Solar H-tank charge stop temperature GSI/EcoZenith i350: :    |                                                                                           | 1      | RW         | 60450 | 60451 | 60452 | 62509   | 6   | 1      |
| 61651        | Vedpanna bufferttank fördröjning återladdning                                                                                                                                        | Wood boiler buffer tank delay recharge time                                               | 1      | RW         | 60453 | 60454 | 60455 | 62509   | 7   | 1      |
| 61652        | Inställning för övre tank om elpatron används                                                                                                                                        | Setpoint for upper tank when el. heater is used                                           | 1      | RW         | 60456 | 60457 | 60458 | 62509   | 8   | 0,1    |
| 61653        | Min varmvattenkapacitet                                                                                                                                                              | Capacity start point for charging DHW                                                     | 1      | RW         | 60459 | 60460 | 60461 | 62509   | 9   | 0,1    |
| 61654        | Mintemp för nedre tankgivare, startar varmvattenladdning                                                                                                                             | Lower temp sensor start point for charging DHW                                            | 1      | RW         | 60462 | 60463 | 60464 | 62509   | 10  | 0,1    |

| BMS Register | Svenska                                                                                                                                                                                                                                                                                                                                                                            | English                                                                                                                                                                                                                                                                                                                                                                       | Signed | Read/Write | Max   | Min   | Step  | Visible | Bit | Factor |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|-------|-------|-------|---------|-----|--------|
| 61655        | Ventilation: Status<br>0=Reducerad<br>1=Normal<br>2=Forcerad<br>3=Manuell                                                                                                                                                                                                                                                                                                          | Ventilation: Mode<br>0=Reduced<br>1=Normal<br>2=Increased<br>3=Manuell                                                                                                                                                                                                                                                                                                        | 1      | RW         | 60465 | 60466 | 60467 | 62509   | 11  | 1      |
| 61656        | Ventilation: Nattkyla                                                                                                                                                                                                                                                                                                                                                              | Turn night cooling on or off                                                                                                                                                                                                                                                                                                                                                  | 1      | RW         | 60468 | 60469 | 60470 | 62509   | 12  | 1      |
| 61657        | Ventilation: Borta-läge                                                                                                                                                                                                                                                                                                                                                            | Ventilation away mode                                                                                                                                                                                                                                                                                                                                                         | 1      | RW         | 60471 | 60472 | 60473 | 62509   | 13  | 1      |
| 62000        | Utetemperatur                                                                                                                                                                                                                                                                                                                                                                      | Outdoor temperature                                                                                                                                                                                                                                                                                                                                                           | 1      | R          |       |       |       | 62531   | 4   | 0,1    |
| 62001        | Stopptemp varmvatten                                                                                                                                                                                                                                                                                                                                                               | Stop temperature DHW                                                                                                                                                                                                                                                                                                                                                          | 1      | R          |       |       |       | 62531   | 5   | 0,1    |
| 62002        | Börvärde uttemp varmvatten                                                                                                                                                                                                                                                                                                                                                         | Setpoint outlet temperature DHW                                                                                                                                                                                                                                                                                                                                               | 1      | R          |       |       |       | 62531   | 6   | 1      |
| 62003        | Varmvattentemperatur                                                                                                                                                                                                                                                                                                                                                               | Hot water temperature                                                                                                                                                                                                                                                                                                                                                         | 1      | R          |       |       |       | 62531   | 7   | 0,1    |
| 62004        | Shuntfördröjning                                                                                                                                                                                                                                                                                                                                                                   | Delay mixing valve                                                                                                                                                                                                                                                                                                                                                            | 1      | R          |       |       |       | 62531   | 8   | 1      |
| 62005        | Status<br>EcoHeat 400/EcoZenith 250: 0=VP övre, 1=VP nedre, 2=Spets, 3=VP + spets GSI/EcoZenith 350: 0=VS, 1= VV, 2= Pool, 3= Från<br>EcoZenith 550/EcoLogic: 0=VV, 1=VS, 2=Övertemp, 3=Ved, 4=VV/ VS, 5=Från                                                                                                                                                                      | Status<br>EcoHeat 400/EcoZenith 250: 0=HP upper, 1=HP lower, 2=Add, 3=HP + Add GSI/EcoZenith 350: 0=HS, 1= DHW, 2= Pool, 3= Från<br>EcoZenith 550/EcoLogic: 0=DHW, 1=HS, 2=Overtemp, 3=Ved, 4=DHW/HS, 5=Från                                                                                                                                                                  | 1      | R          |       |       |       | 62531   | 9   | 1      |
| 62006        | Radiatorvatten                                                                                                                                                                                                                                                                                                                                                                     | Radiator Water                                                                                                                                                                                                                                                                                                                                                                | 1      | R          |       |       |       | 62531   | 10  | 0,1    |
| 62007        | Värmsystem 1: Temp börvärde framledning                                                                                                                                                                                                                                                                                                                                            | Heating system 1: Temperature setpoint primary flow                                                                                                                                                                                                                                                                                                                           | 1      | R          |       |       |       | 62531   | 11  | 0,1    |
| 62008        | Värmsystem 2: Temp börvärde framledning                                                                                                                                                                                                                                                                                                                                            | Heating system 2: Temperature setpoint primary flow                                                                                                                                                                                                                                                                                                                           | 1      | R          |       |       |       | 62531   | 12  | 0,1    |
| 62009        | Värmsystem 3: Temp börvärde framledning                                                                                                                                                                                                                                                                                                                                            | Heating system 3: Temperature setpoint primary flow                                                                                                                                                                                                                                                                                                                           | 1      | R          |       |       |       | 62531   | 13  | 0,1    |
| 62010        | Värmsystem 4: Temp börvärde framledning                                                                                                                                                                                                                                                                                                                                            | Heating system 4: Temperature setpoint primary flow                                                                                                                                                                                                                                                                                                                           | 1      | R          |       |       |       | 62531   | 14  | 0,1    |
| 62011        | Värmsystem 1: Framledning ärvärde                                                                                                                                                                                                                                                                                                                                                  | Heating system 1: Primary flow temperature                                                                                                                                                                                                                                                                                                                                    | 1      | R          |       |       |       | 62531   | 15  | 0,1    |
| 62012        | Värmsystem 2: Framledning ärvärde                                                                                                                                                                                                                                                                                                                                                  | Heating system 2: Primary flow temperature                                                                                                                                                                                                                                                                                                                                    | 1      | R          |       |       |       | 62532   | 0   | 0,1    |
| 62013        | Värmsystem 3: Framledning ärvärde                                                                                                                                                                                                                                                                                                                                                  | Heating system 3: Primary flow temperature                                                                                                                                                                                                                                                                                                                                    | 1      | R          |       |       |       | 62532   | 1   | 0,1    |
| 62014        | Värmsystem 4: Framledning ärvärde                                                                                                                                                                                                                                                                                                                                                  | Heating system 4: Primary flow temperature                                                                                                                                                                                                                                                                                                                                    | 1      | R          |       |       |       | 62532   | 2   | 0,1    |
| 62015        | Returtemperatur                                                                                                                                                                                                                                                                                                                                                                    | Return temp                                                                                                                                                                                                                                                                                                                                                                   | 1      | R          |       |       |       | 62532   | 3   | 0,1    |
| 62016        | Varmvattencirkulation (VVC)                                                                                                                                                                                                                                                                                                                                                        | DHW circulation                                                                                                                                                                                                                                                                                                                                                               | 1      | R          |       |       |       | 62532   | 4   | 1      |
| 62017        | Värmepump 1 (A1): Status<br>0=Kompressor från, startfördröjning<br>1=Kompressor, redo för start<br>2=Kompressor, väntar på flöde<br>3=Kompressor, till värme<br>4=Avfrostning aktiv<br>5=Kompressor, till kyla<br>6=Kompressor, från blockerad<br>7=Kompressor, från larm<br>8=Funktionstest<br>30=VP ej definierad<br>31=VP ej tillgänglig<br>32=Kommunikationsfel<br>33=Till VV  | Heat pump 1 (A1): Status<br>0=Compressor_off_start_delay<br>1=Compressor_off_reedy_to_start<br>2=Compressor_wait_until_flow<br>3=Comperssor_on_heating<br>4=Defrost_active,<br>5=Compressor_on_cooling<br>6=Compressor_off_blocked<br>7=Compressor_off_alarm<br>8=Function_test.<br>30=HP not defined<br>31=Compressor not enabled<br>32=Communication error<br>33=Charge dhw | 1      | R          |       |       |       | 62532   | 5   | 1      |
| 62018        | Värmepump 2 (A2): Status<br>0=Kompressor från, startfördröjning<br>1=Kompressor, redo för start<br>2=Kompressor, väntar på flöde<br>3=Kompressor, till värme<br>4=Avfrostning aktiv<br>5=Kompresssor, till kyla<br>6=Kompressor, från blockerad<br>7=Kompressor, från larm<br>8=Funktionstest<br>30=VP ej definierad<br>31=VP ej tillgänglig<br>32=Kommunikationsfel<br>33=Till VV | Heat pump 2 (A2) status<br>0=Compressor_off_start_delay<br>1=Compressor_off_reedy_to_start<br>2=Compressor_wait_until_flow<br>3=Comperssor_on_heating<br>4=Defrost_active,<br>5=Compressor_on_cooling<br>6=Compressor_off_blocked<br>7=Compressor_off_alarm<br>8=Function_test.<br>30=HP not defined<br>31=Compressor not enabled<br>32=Communication error<br>33=Charge dhw  | 1      | R          |       |       |       | 62532   | 6   | 1      |

| BMS Register | Svenska                                                                                                                                                                                                                                                                                                                                                                           | English                                                                                                                                                                                                                                                                                                                                                                     | Signed | Read/Write | Max | Min | Step | Visible | Bit | Factor |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|-----|-----|------|---------|-----|--------|
| 62019        | Värmepump 3 (A3): Status<br>0=Kompressor från, startfördröjning<br>1=Kompressor, redo för start<br>2=Kompressor, väntar på flöde<br>3=Kompressor, till värme<br>4=Avfrostning aktiv<br>5=Kompressor, till kyla<br>6=Kompressor, från blockerad<br>7=Kompressor, från larm<br>8=Funktionstest<br>30=VP ej definierad<br>31=VP ej tillgänglig<br>32=Kommunikationsfel<br>33=Till VV | Heat pump 3 (A3) Status<br>0=Compressor_off_start_delay<br>1=Compressor_off_redy_to_start<br>2=Compressor_wait_until_flow<br>3=Comperssor_on_heating<br>4=Defrost_active,<br>5=Compressor_on_cooling<br>6=Compressor_off_blocked<br>7=Compressor_off_alarm<br>8=Function_test.<br>30=HP not defined<br>31=Compressor not enabled<br>32=Communication error<br>33=Charge dhw | 1      | R          |     |     |      | 62532   | 7   | 1      |
| 62020        | Värmepump 4 (A4): Status<br>0=Kompressor från, startfördröjning<br>1=Kompressor, redo för start<br>2=Kompressor, väntar på flöde<br>3=Kompressor, till värme<br>4=Avfrostning aktiv<br>5=Kompressor, till kyla<br>6=Kompressor, från blockerad<br>7=Kompressor, från larm<br>8=Funktionstest<br>30=VP ej definierad<br>31=VP ej tillgänglig<br>32=Kommunikationsfel<br>33=Till VV | Heat pump 4 (A4) Status<br>0=Compressor_off_start_delay<br>1=Compressor_off_redy_to_start<br>2=Compressor_wait_until_flow<br>3=Comperssor_on_heating<br>4=Defrost_active,<br>5=Compressor_on_cooling<br>6=Compressor_off_blocked<br>7=Compressor_off_alarm<br>8=Function_test.<br>30=HP not defined<br>31=Compressor not enabled<br>32=Communication error<br>33=Charge dhw | 1      | R          |     |     |      | 62532   | 8   | 1      |
| 62021        | Värmepump 5 (A5): Status<br>0=Kompressor från, startfördröjning<br>1=Kompressor, redo för start<br>2=Kompressor, väntar på flöde<br>3=Kompressor, till värme<br>4=Avfrostning aktiv<br>5=Kompressor, till kyla<br>6=Kompressor, från blockerad<br>7=Kompressor, från larm<br>8=Funktionstest<br>30=VP ej definierad<br>31=VP ej tillgänglig<br>32=Kommunikationsfel<br>33=Till VV | Heat pump 5 (A5) Status<br>0=Compressor_off_start_delay<br>1=Compressor_off_redy_to_start<br>2=Compressor_wait_until_flow<br>3=Comperssor_on_heating<br>4=Defrost_active,<br>5=Compressor_on_cooling<br>6=Compressor_off_blocked<br>7=Compressor_off_alarm<br>8=Function_test.<br>30=HP not defined<br>31=Compressor not enabled<br>32=Communication error<br>33=Charge dhw | 1      | R          |     |     |      | 62532   | 9   | 1      |
| 62022        | Värmepump 6 (A6): Status<br>0=Kompressor från, startfördröjning<br>1=Kompressor, redo för start<br>2=Kompressor, väntar på flöde<br>3=Kompressor, till värme<br>4=Avfrostning aktiv<br>5=Kompressor, till kyla<br>6=Kompressor, från blockerad<br>7=Kompressor, från larm<br>8=Funktionstest<br>30=VP ej definierad<br>31=VP ej tillgänglig<br>32=Kommunikationsfel<br>33=Till VV | Heat pump 6 (A6) Status<br>0=Compressor_off_start_delay<br>1=Compressor_off_redy_to_start<br>2=Compressor_wait_until_flow<br>3=Comperssor_on_heating<br>4=Defrost_active,<br>5=Compressor_on_cooling<br>6=Compressor_off_blocked<br>7=Compressor_off_alarm<br>8=Function_test.<br>30=HP not defined<br>31=Compressor not enabled<br>32=Communication error<br>33=Charge dhw | 1      | R          |     |     |      | 62532   | 10  | 1      |

| BMS Register | Svenska                                                                                                                                                                                                                                                                                                                                                                             | English                                                                                                                                                                                                                                                                                                                                                                        | Signed | Read/Write | Max | Min | Step | Visible | Bit | Factor |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|-----|-----|------|---------|-----|--------|
| 62023        | Värmepump 7 (A7): Status<br>0=Kompressor från, startfördröjning<br>1=Kompressor, redo för start<br>2=Kompressor, väntar på flöde<br>3=Kompressor, till värme<br>4=Avfrostning aktiv<br>5=Kompressor, till kyla<br>6=Kompressor, från blockerad<br>7=Kompressor, från larm<br>8=Funktionstest<br>30=VP ej definierad<br>31=VP ej tillgänglig<br>32=Kommunikationsfel<br>33=Till VV   | Heat pump 7 (A7) Status<br>0=Compressor_off_start_delay<br>1=Compressor_off_redy_to_start<br>2=Compressor_wait_until_flow<br>3=Comperssor_on_heating<br>4=Defrost_active,<br>5=Compressor_on_cooling<br>6=Compressor_off_blocked<br>7=Compressor_off_alarm<br>8=Function_test.<br>30=HP not defined<br>31=Compressor not enabled<br>32=Communication error<br>33=Charge dhw    | 1      | R          |     |     |      | 62532   | 11  | 1      |
| 62024        | Värmepump 8 (A8): Status<br>0=Kompressor från, startfördröjning<br>1=Kompressor, redo för start<br>2=Kompressor, väntar på flöde<br>3=Kompressor, till värme<br>4=Avfrostning aktiv<br>5=Kompressor, till kyla<br>6=Kompressor, från blockerad<br>7=Kompressor, från larm<br>8=Funktionstest<br>30=VP ej definierad<br>31=VP ej tillgänglig<br>32=Kommunikationsfel<br>33=Till VV   | Heat pump 8 (A8) Status<br>0=Compressor_off_start_delay<br>1=Compressor_off_redy_to_start<br>2=Compressor_wait_until_flow<br>3=Comperssor_on_heating<br>4=Defrost_active,<br>5=Compressor_on_cooling<br>6=Compressor_off_blocked<br>7=Compressor_off_alarm<br>8=Function_test.<br>30=HP not defined<br>31=Compressor not enabled<br>32=Communication error<br>33=Charge dhw    | 1      | R          |     |     |      | 62532   | 12  | 1      |
| 62025        | Värmepump 9 (A9): Status<br>0=Kompressor från, startfördröjning<br>1=Kompressor, redo för start<br>2=Kompressor, väntar på flöde<br>3=Kompressor, till värme<br>4=Avfrostning aktiv<br>5=Kompressor, till kyla<br>6=Kompressor, från blockerad<br>7=Kompressor, från larm<br>8=Funktionstest<br>30=VP ej definierad<br>31=VP ej tillgänglig<br>32=Kommunikationsfel<br>33=Till VV   | Heat pump 9 (A9) Status<br>0=Compressor_off_start_delay<br>1=Compressor_off_redy_to_start<br>2=Compressor_wait_until_flow<br>3=Comperssor_on_heating<br>4=Defrost_active,<br>5=Compressor_on_cooling<br>6=Compressor_off_blocked<br>7=Compressor_off_alarm<br>8=Function_test.<br>30=HP not defined<br>31=Compressor not enabled<br>32=Communication error<br>33=Charge dhw    | 1      | R          |     |     |      | 62532   | 13  | 1      |
| 62026        | Värmepump 10 (A10): Status<br>0=Kompressor från, startfördröjning<br>1=Kompressor, redo för start<br>2=Kompressor, väntar på flöde<br>3=Kompressor, till värme<br>4=Avfrostning aktiv<br>5=Kompressor, till kyla<br>6=Kompressor, från blockerad<br>7=Kompressor, från larm<br>8=Funktionstest<br>30=VP ej definierad<br>31=VP ej tillgänglig<br>32=Kommunikationsfel<br>33=Till VV | Heat pump 10 (A10): Status<br>0=Compressor_off_start_delay<br>1=Compressor_off_redy_to_start<br>2=Compressor_wait_until_flow<br>3=Comperssor_on_heating<br>4=Defrost_active,<br>5=Compressor_on_cooling<br>6=Compressor_off_blocked<br>7=Compressor_off_alarm<br>8=Function_test.<br>30=HP not defined<br>31=Compressor not enabled<br>32=Communication error<br>33=Charge dhw | 1      | R          |     |     |      | 62532   | 14  | 1      |
| 62027        | Värmepump 1 (A1): VP in                                                                                                                                                                                                                                                                                                                                                             | Heat pump 1 (A1) HP in                                                                                                                                                                                                                                                                                                                                                         | 1      | R          |     |     |      | 62532   | 15  | 0,1    |
| 62028        | Värmepump 2 (A2): VP in                                                                                                                                                                                                                                                                                                                                                             | Heat pump 2 (A2) HP in                                                                                                                                                                                                                                                                                                                                                         | 1      | R          |     |     |      | 62533   | 0   | 0,1    |
| 62029        | Värmepump 3 (A3): VP in                                                                                                                                                                                                                                                                                                                                                             | Heat pump 3 (A3) HP in                                                                                                                                                                                                                                                                                                                                                         | 1      | R          |     |     |      | 62533   | 1   | 0,1    |
| 62030        | Värmepump 4 (A4): VP in                                                                                                                                                                                                                                                                                                                                                             | Heat pump 4 (A4) HP in                                                                                                                                                                                                                                                                                                                                                         | 1      | R          |     |     |      | 62533   | 2   | 0,1    |
| 62031        | Värmepump 5 (A5): VP in                                                                                                                                                                                                                                                                                                                                                             | Heat pump 5 (A5) HP in                                                                                                                                                                                                                                                                                                                                                         | 1      | R          |     |     |      | 62533   | 3   | 0,1    |
| 62032        | Värmepump 6 (A6): VP in                                                                                                                                                                                                                                                                                                                                                             | Heat pump 6 (A6) HP in                                                                                                                                                                                                                                                                                                                                                         | 1      | R          |     |     |      | 62533   | 4   | 0,1    |
| 62033        | Värmepump 7 (A7): VP in                                                                                                                                                                                                                                                                                                                                                             | Heat pump 7 (A7) HP in                                                                                                                                                                                                                                                                                                                                                         | 1      | R          |     |     |      | 62533   | 5   | 0,1    |
| 62034        | Värmepump 8 (A8): VP in                                                                                                                                                                                                                                                                                                                                                             | Heat pump 8 (A8) HP in                                                                                                                                                                                                                                                                                                                                                         | 1      | R          |     |     |      | 62533   | 6   | 0,1    |
| 62035        | Värmepump 9 (A9): VP in                                                                                                                                                                                                                                                                                                                                                             | Heat pump 9 (A9) HP in                                                                                                                                                                                                                                                                                                                                                         | 1      | R          |     |     |      | 62533   | 7   | 0,1    |



| BMS Register | Svenska                      | English                                     | Signed | Read/Write | Max | Min | Step | Visible | Bit | Factor |
|--------------|------------------------------|---------------------------------------------|--------|------------|-----|-----|------|---------|-----|--------|
| 62036        | Värmepump 10 (A10): VP in    | Heat pump 10 (A10) HP in                    | 1      | R          |     |     |      | 62533   | 8   | 0,1    |
| 62037        | Värmepump 1 (A1): VP ut      | Heat pump 1 (A1) HP out                     | 1      | R          |     |     |      | 62533   | 9   | 0,1    |
| 62038        | Värmepump 2 (A2): VP ut      | Heat pump 2 (A2) HP out                     | 1      | R          |     |     |      | 62533   | 10  | 0,1    |
| 62039        | Värmepump 3 (A3): VP ut      | Heat pump 3 (A3) HP out                     | 1      | R          |     |     |      | 62533   | 11  | 0,1    |
| 62040        | Värmepump 4 (A4): VP ut      | Heat pump 4 (A4) HP out                     | 1      | R          |     |     |      | 62533   | 12  | 0,1    |
| 62041        | Värmepump 5 (A5): VP ut      | Heat pump 5 (A5) HP out                     | 1      | R          |     |     |      | 62533   | 13  | 0,1    |
| 62042        | Värmepump 6 (A6): VP ut      | Heat pump 6 (A6) HP out                     | 1      | R          |     |     |      | 62533   | 14  | 0,1    |
| 62043        | Värmepump 7 (A7): VP ut      | Heat pump 7 (A7) HP out                     | 1      | R          |     |     |      | 62533   | 15  | 0,1    |
| 62044        | Värmepump 8 (A8): VP ut      | Heat pump 8 (A8) HP out                     | 1      | R          |     |     |      | 62534   | 0   | 0,1    |
| 62045        | Värmepump 9 (A9): VP ut      | Heat pump 9 (A9) HP out                     | 1      | R          |     |     |      | 62534   | 1   | 0,1    |
| 62046        | Värmepump 10 (A10): VP ut    | Heat pump 10 (A10) HP out                   | 1      | R          |     |     |      | 62534   | 2   | 0,1    |
| 62047        | Värmepump 1 (A1): Hetgas     | Heat pump 1 (A1): Discharge temperature     | 1      | R          |     |     |      | 62534   | 3   | 0,1    |
| 62048        | Värmepump 2 (A2): Hetgas     | Heat pump 2 (A2) Discharge temperature      | 1      | R          |     |     |      | 62534   | 4   | 0,1    |
| 62049        | Värmepump 3 (A3): Hetgas     | Heat pump 3 (A3): Discharge temperature     | 1      | R          |     |     |      | 62534   | 5   | 0,1    |
| 62050        | Värmepump 4 (A4): Hetgas     | Heat pump 4 (A4): Discharge temperature     | 1      | R          |     |     |      | 62534   | 6   | 0,1    |
| 62051        | Värmepump 5 (A5): Hetgas     | Heat pump 5 (A5): Discharge temperature     | 1      | R          |     |     |      | 62534   | 7   | 0,1    |
| 62052        | Värmepump 6 (A6): Hetgas     | Heat pump 6 (A6): Discharge temperature     | 1      | R          |     |     |      | 62534   | 8   | 0,1    |
| 62053        | Värmepump 7 (A7): Hetgas     | Heat pump 7 (A7): Discharge temperature     | 1      | R          |     |     |      | 62534   | 9   | 0,1    |
| 62054        | Värmepump 8 (A8): Hetgas     | Heat pump 8 (A8): Discharge temperature     | 1      | R          |     |     |      | 62534   | 10  | 0,1    |
| 62055        | Värmepump 9 (A9): Hetgas     | Heat pump 9 (A9): Discharge temperature     | 1      | R          |     |     |      | 62534   | 11  | 0,1    |
| 62056        | Värmepump 10 (A10): Hetgas   | Heat pump 10 (A10): Discharge temperature   | 1      | R          |     |     |      | 62534   | 12  | 0,1    |
| 62057        | Värmepump 1 (A1): Suggas     | Heat pump 1 (A1): Suction gas temperature   | 1      | R          |     |     |      | 62534   | 13  | 0,1    |
| 62058        | Värmepump 2 (A2): Suggas     | Heat pump 2 (A2) Suction gas temperature    | 1      | R          |     |     |      | 62534   | 14  | 0,1    |
| 62059        | Värmepump 3 (A3): Suggas     | Heat pump 3 (A3): Suction gas temperature   | 1      | R          |     |     |      | 62534   | 15  | 0,1    |
| 62060        | Värmepump 4 (A4): Suggas     | Heat pump 4 (A4): Suction gas temperature   | 1      | R          |     |     |      | 62535   | 0   | 0,1    |
| 62061        | Värmepump 5 (A5): Suggas     | Heat pump 5 (A5): Suction gas temperature   | 1      | R          |     |     |      | 62535   | 1   | 0,1    |
| 62062        | Värmepump 6 (A6): Suggas     | Heat pump 6 (A6): Suction gas temperature   | 1      | R          |     |     |      | 62535   | 2   | 0,1    |
| 62063        | Värmepump 7 (A7): Suggas     | Heat pump 7 (A7): Suction gas temperature   | 1      | R          |     |     |      | 62535   | 3   | 0,1    |
| 62064        | Värmepump 8 (A8): Suggas     | Heat pump 8 (A8): Suction gas temperature   | 1      | R          |     |     |      | 62535   | 4   | 0,1    |
| 62065        | Värmepump 9 (A9): Suggas     | Heat pump 9 (A9): Suction gas temperature   | 1      | R          |     |     |      | 62535   | 5   | 0,1    |
| 62066        | Värmepump 10 (A10): Suggas   | Heat pump 10 (A10): Suction gas temperature | 1      | R          |     |     |      | 62535   | 6   | 0,1    |
| 62067        | Värmepump 1 (A1): Högtryck   | Heat pump 1 (A1): High pressure             | 1      | R          |     |     |      | 62535   | 7   | 0,1    |
| 62068        | Värmepump 2 (A2): Högtryck   | Heat pump 2 (A2): High pressure             | 1      | R          |     |     |      | 62535   | 8   | 0,1    |
| 62069        | Värmepump 3 (A3): Högtryck   | Heat pump 3 (A3): High pressure             | 1      | R          |     |     |      | 62535   | 9   | 0,1    |
| 62070        | Värmepump 4 (A4): Högtryck   | Heat pump 4 (A4): High pressure             | 1      | R          |     |     |      | 62535   | 10  | 0,1    |
| 62071        | Värmepump 5 (A5): Högtryck   | Heat pump 5 (A5): High pressure             | 1      | R          |     |     |      | 62535   | 11  | 0,1    |
| 62072        | Värmepump 6 (A6): Högtryck   | Heat pump 6 (A6): High pressure             | 1      | R          |     |     |      | 62535   | 12  | 0,1    |
| 62073        | Värmepump 7 (A7): Högtryck   | Heat pump 7 (A7): High pressure             | 1      | R          |     |     |      | 62535   | 13  | 0,1    |
| 62074        | Värmepump 8 (A8): Högtryck   | Heat pump 8 (A8): High pressure             | 1      | R          |     |     |      | 62535   | 14  | 0,1    |
| 62075        | Värmepump 9 (A9): Högtryck   | Heat pump 9 (A9): High pressure             | 1      | R          |     |     |      | 62535   | 15  | 0,1    |
| 62076        | Värmepump 10 (A10): Högtryck | Heat pump 10 (A10): High pressure           | 1      | R          |     |     |      | 62536   | 0   | 0,1    |
| 62077        | Värmepump 1 (A1): Lågtryck   | Heat pump 1 (A1): Low Pressure              | 1      | R          |     |     |      | 62536   | 1   | 0,1    |
| 62078        | Värmepump 2 (A2): Lågtryck   | Heat pump 2 (A2): Low Pressure              | 1      | R          |     |     |      | 62536   | 2   | 0,1    |
| 62079        | Värmepump 3 (A3): Lågtryck   | Heat pump 3 (A3): Low Pressure              | 1      | R          |     |     |      | 62536   | 3   | 0,1    |
| 62080        | Värmepump 4 (A4): Lågtryck   | Heat pump 4 (A4): Low Pressure              | 1      | R          |     |     |      | 62536   | 4   | 0,1    |
| 62081        | Värmepump 5 (A5): Lågtryck   | Heat pump 5 (A5): Low Pressure              | 1      | R          |     |     |      | 62536   | 5   | 0,1    |
| 62082        | Värmepump 6 (A6): Lågtryck   | Heat pump 6 (A6): Low Pressure              | 1      | R          |     |     |      | 62536   | 6   | 0,1    |
| 62083        | Värmepump 7 (A7): Lågtryck   | Heat pump 7 (A7): Low Pressure              | 1      | R          |     |     |      | 62536   | 7   | 0,1    |
| 62084        | Värmepump 8 (A8): Lågtryck   | Heat pump 8 (A8): Low Pressure              | 1      | R          |     |     |      | 62536   | 8   | 0,1    |
| 62085        | Värmepump 9 (A9): Lågtryck   | Heat pump 9 (A9): Low Pressure              | 1      | R          |     |     |      | 62536   | 9   | 0,1    |
| 62086        | Värmepump 10 (A10): Lågtryck | Heat pump 10 (A10): Low Pressure            | 1      | R          |     |     |      | 62536   | 10  | 0,1    |
| 62087        | Värmepump 1 (A1): Brine in   | Heat pump 1 (A1): Brine in                  | 1      | R          |     |     |      | 62536   | 11  | 0,1    |
| 62088        | Värmepump 2 (A2): Brine in   | Heat pump 2 (A2): Brine in                  | 1      | R          |     |     |      | 62536   | 12  | 0,1    |
| 62089        | Värmepump 3 (A3): Brine in   | Heat pump 3 (A3): Brine in                  | 1      | R          |     |     |      | 62536   | 13  | 0,1    |
| 62090        | Värmepump 4 (A4): Brine in   | Heat pump 4 (A4): Brine in                  | 1      | R          |     |     |      | 62536   | 14  | 0,1    |
| 62091        | Värmepump 5 (A5): Brine in   | Heat pump 5 (A5): Brine in                  | 1      | R          |     |     |      | 62536   | 15  | 0,1    |
| 62092        | Värmepump 6 (A6): Brine in   | Heat pump 6 (A6): Brine in                  | 1      | R          |     |     |      | 62537   | 0   | 0,1    |
| 62093        | Värmepump 7 (A7): Brine in   | Heat pump 7 (A7): Brine in                  | 1      | R          |     |     |      | 62537   | 1   | 0,1    |
| 62094        | Värmepump 8 (A8): Brine in   | Heat pump 8 (A8): Brine in                  | 1      | R          |     |     |      | 62537   | 2   | 0,1    |
| 62095        | Värmepump 9 (A9): Brine in   | Heat pump 9 (A9): Brine in                  | 1      | R          |     |     |      | 62537   | 3   | 0,1    |
| 62096        | Värmepump 10 (A10): Brine in | Heat pump 10 (A10): Brine in                | 1      | R          |     |     |      | 62537   | 4   | 0,1    |
| 62097        | Värmepump 1 (A1): Brine ut   | Heat pump 1 (A1): Brine out                 | 1      | R          |     |     |      | 62537   | 5   | 0,1    |
| 62098        | Värmepump 2 (A2): Brine ut   | Heat pump 2 (A2): Brine out                 | 1      | R          |     |     |      | 62537   | 6   | 0,1    |
| 62099        | Värmepump 3 (A3): Brine ut   | Heat pump 3 (A3): Brine out                 | 1      | R          |     |     |      | 62537   | 7   | 0,1    |
| 62100        | Värmepump 4 (A4): Brine ut   | Heat pump 4 (A4): Brine out                 | 1      | R          |     |     |      | 62537   | 8   | 0,1    |

| BMS Register | Svenska                               | English                            | Signed | Read/Write | Max | Min | Step | Visible | Bit | Factor |
|--------------|---------------------------------------|------------------------------------|--------|------------|-----|-----|------|---------|-----|--------|
| 62101        | Värmepump 5 (A5): Brine ut            | Heat pump 5 (A5): Brine out        | 1      | R          |     |     |      | 62537   | 9   | 0,1    |
| 62102        | Värmepump 6 (A6): Brine ut            | Heat pump 6 (A6): Brine out        | 1      | R          |     |     |      | 62537   | 10  | 0,1    |
| 62103        | Värmepump 7 (A7): Brine ut            | Heat pump 7 (A7): Brine out        | 1      | R          |     |     |      | 62537   | 11  | 0,1    |
| 62104        | Värmepump 8 (A8): Brine ut            | Heat pump 8 (A8): Brine out        | 1      | R          |     |     |      | 62537   | 12  | 0,1    |
| 62105        | Värmepump 9 (A9): Brine ut            | Heat pump 9 (A9): Brine out        | 1      | R          |     |     |      | 62537   | 13  | 0,1    |
| 62106        | Värmepump 10 (A10): Brine ut          | Heat pump 10 (A10): Brine out      | 1      | R          |     |     |      | 62537   | 14  | 0,1    |
| 62107        | Värmepump 1 (A1): Laddpump            | Heat pump 1 (A1): Charge pump      | 1      | R          |     |     |      | 62537   | 15  | 0,1    |
| 62108        | Värmepump 2 (A2): Laddpump            | Heat pump 2 (A2): Chargepump       | 1      | R          |     |     |      | 62538   | 0   | 0,1    |
| 62109        | Värmepump 3 (A3): Laddpump            | Heat pump 3 (A3): Charge pump      | 1      | R          |     |     |      | 62538   | 1   | 0,1    |
| 62110        | Värmepump 4 (A4): Laddpump            | Heat pump 4 (A4): Charge pump      | 1      | R          |     |     |      | 62538   | 2   | 0,1    |
| 62111        | Värmepump 5 (A5): Laddpump            | Heat pump 5 (A5): Charge pump      | 1      | R          |     |     |      | 62538   | 3   | 0,1    |
| 62112        | Värmepump 6 (A6): Laddpump            | Heat pump 6 (A6): Charge pump      | 1      | R          |     |     |      | 62538   | 4   | 0,1    |
| 62113        | Värmepump 7 (A7): Laddpump            | Heat pump 7 (A7): Charge pump      | 1      | R          |     |     |      | 62538   | 5   | 0,1    |
| 62114        | Värmepump 8 (A8): Laddpump            | Heat pump 8 (A8): Charge pump      | 1      | R          |     |     |      | 62538   | 6   | 0,1    |
| 62115        | Värmepump 9 (A9): Laddpump            | Heat pump 9 (A9): Charge pump      | 1      | R          |     |     |      | 62538   | 7   | 0,1    |
| 62116        | Värmepump 10 (A10): Laddpump          | Heat pump 10 (A10): Charge pump    | 1      | R          |     |     |      | 62538   | 8   | 0,1    |
| 62117        | Värmepump 1 (A1): Brinepump           | Heat pump 1 (A1): Brine pump       | 1      | R          |     |     |      | 62538   | 9   | 0,1    |
| 62118        | Värmepump 2 (A2): Brinepump           | Heat pump 2 (A2): Brine pump       | 1      | R          |     |     |      | 62538   | 10  | 0,1    |
| 62119        | Värmepump 3 (A3): Brinepump           | Heat pump 3 (A3): Brine pump       | 1      | R          |     |     |      | 62538   | 11  | 0,1    |
| 62120        | Värmepump 4 (A4): Brinepump           | Heat pump 4 (A4): Brine pump       | 1      | R          |     |     |      | 62538   | 12  | 0,1    |
| 62121        | Värmepump 5 (A5): Brinepump           | Heat pump 5 (A5): Brine pump       | 1      | R          |     |     |      | 62538   | 13  | 0,1    |
| 62122        | Värmepump 6 (A6): Brinepump           | Heat pump 6 (A6): Brine pump       | 1      | R          |     |     |      | 62538   | 14  | 0,1    |
| 62123        | Värmepump 7 (A7): Brinepump           | Heat pump 7 (A7): Brine pump       | 1      | R          |     |     |      | 62538   | 15  | 0,1    |
| 62124        | Värmepump 8 (A8): Brinepump           | Heat pump 8 (A8): Brine pump       | 1      | R          |     |     |      | 62539   | 0   | 0,1    |
| 62125        | Värmepump 9 (A9): Brinepump           | Heat pump 9 (A9): Brine pump       | 1      | R          |     |     |      | 62539   | 1   | 0,1    |
| 62126        | Värmepump 10 (A10): Brinepump         | Heat pump 10 (A10): Brine pump     | 1      | R          |     |     |      | 62539   | 2   | 0,1    |
| 62127        | Värmepump 1 (A1): Fläkt               | Heat pump 1 (A1): Fan              | 1      | R          |     |     |      | 62539   | 3   | 0,1    |
| 62128        | Värmepump 2 (A2): Fläkt               | Heat pump 2 (A2): Fan              | 1      | R          |     |     |      | 62539   | 4   | 0,1    |
| 62129        | Värmepump 3 (A3): Fläkt               | Heat pump 3 (A3): Fan              | 1      | R          |     |     |      | 62539   | 5   | 0,1    |
| 62130        | Värmepump 4 (A4): Fläkt               | Heat pump 4 (A4): Fan              | 1      | R          |     |     |      | 62539   | 6   | 0,1    |
| 62131        | Värmepump 5 (A5): Fläkt               | Heat pump 5 (A5): Fan              | 1      | R          |     |     |      | 62539   | 7   | 0,1    |
| 62132        | Värmepump 6 (A6): Fläkt               | Heat pump 6 (A6): Fan              | 1      | R          |     |     |      | 62539   | 8   | 0,1    |
| 62133        | Värmepump 7 (A7): Fläkt               | Heat pump 7 (A7): Fan              | 1      | R          |     |     |      | 62539   | 9   | 0,1    |
| 62134        | Värmepump 8 (A8): Fläkt               | Heat pump 8 (A8): Fan              | 1      | R          |     |     |      | 62539   | 10  | 0,1    |
| 62135        | Värmepump 9 (A9): Fläkt               | Heat pump 9 (A9): Fan              | 1      | R          |     |     |      | 62539   | 11  | 0,1    |
| 62136        | Värmepump 10 (A10): Fläkt             | Heat pump 10 (A10): Fan            | 1      | R          |     |     |      | 62539   | 12  | 0,1    |
| 62137        | Värmepump 1 (A1): Avfrostningstimer   | Heat pump 1 (A1): Defrost timer    | 1      | R          |     |     |      | 62539   | 13  | 1      |
| 62138        | Värmepump 2 (A2): Avfrostningstimer   | Heat pump 2 (A2): Defrost timer    | 1      | R          |     |     |      | 62539   | 14  | 1      |
| 62139        | Värmepump 3 (A3): Avfrostningstimer   | Heat pump 3 (A3): Defrost timer    | 1      | R          |     |     |      | 62539   | 15  | 1      |
| 62140        | Värmepump 4 (A4): Avfrostningstimer   | Heat pump 4 (A4): Defrost timer    | 1      | R          |     |     |      | 62540   | 0   | 1      |
| 62141        | Värmepump 5 (A5): Avfrostningstimer   | Heat pump 5 (A5): Defrost timer    | 1      | R          |     |     |      | 62540   | 1   | 1      |
| 62142        | Värmepump 6 (A6): Avfrostningstimer   | Heat pump 6 (A6): Defrost timer    | 1      | R          |     |     |      | 62540   | 2   | 1      |
| 62143        | Värmepump 7 (A7): Avfrostningstimer   | Heat pump 7 (A7): Defrost timer    | 1      | R          |     |     |      | 62540   | 3   | 1      |
| 62144        | Värmepump 8 (A8): Avfrostningstimer   | Heat pump 8 (A8): Defrost timer    | 1      | R          |     |     |      | 62540   | 4   | 1      |
| 62145        | Värmepump 9 (A9): Avfrostningstimer   | Heat pump 9 (A9): Defrost timer    | 1      | R          |     |     |      | 62540   | 5   | 1      |
| 62146        | Värmepump 10 (A10): Avfrostningstimer | Heat pump 10 (A10): Defrost timer  | 1      | R          |     |     |      | 62540   | 6   | 1      |
| 62147        | Värmepump 1 (A1): Utetemp             | Heat pump 1 (A1): Outdoor temp     | 1      | R          |     |     |      | 62540   | 7   | 0,1    |
| 62148        | Värmepump 2 (A2): Utetemp             | Heat pump 2 (A2): Outdoor temp     | 1      | R          |     |     |      | 62540   | 8   | 0,1    |
| 62149        | Värmepump 3 (A3): Utetemp             | Heat pump 3 (A3): Outdoor temp     | 1      | R          |     |     |      | 62540   | 9   | 0,1    |
| 62150        | Värmepump 4 (A4): Utetemp             | Heat pump 4 (A4): Outdoor temp     | 1      | R          |     |     |      | 62540   | 10  | 0,1    |
| 62151        | Värmepump 5 (A5): Utetemp             | Heat pump 5 (A5): Outdoor temp     | 1      | R          |     |     |      | 62540   | 11  | 0,1    |
| 62152        | Värmepump 6 (A6): Utetemp             | Heat pump 6 (A6): Outdoor temp     | 1      | R          |     |     |      | 62540   | 12  | 0,1    |
| 62153        | Värmepump 7 (A7): Utetemp             | Heat pump 7 (A7): Outdoor temp     | 1      | R          |     |     |      | 62540   | 13  | 0,1    |
| 62154        | Värmepump 8 (A8): Utetemp             | Heat pump 8 (A8): Outdoor temp     | 1      | R          |     |     |      | 62540   | 14  | 0,1    |
| 62155        | Värmepump 9 (A9): Utetemp             | Heat pump 9 (A9): Outdoor temp     | 1      | R          |     |     |      | 62540   | 15  | 0,1    |
| 62156        | Värmepump 10 (A10): Utetemp           | Heat pump 10 (A10): Outdoor temp   | 1      | R          |     |     |      | 62541   | 0   | 0,1    |
| 62157        | Värmepump 1 (A1): Mjukvaruversion     | Heat pump 1 (A1): Software version | 1      | R          |     |     |      | 62541   | 1   | 1      |
| 62158        | Värmepump 2 (A2): Mjukvaruversion     | Heat pump 2 (A2): Software version | 1      | R          |     |     |      | 62541   | 2   | 1      |
| 62159        | Värmepump 3 (A3): Mjukvaruversion     | Heat pump 3 (A3): Software version | 1      | R          |     |     |      | 62541   | 3   | 1      |
| 62160        | Värmepump 4 (A4): Mjukvaruversion     | Heat pump 4 (A4): Software version | 1      | R          |     |     |      | 62541   | 4   | 1      |
| 62161        | Värmepump 5 (A5): Mjukvaruversion     | Heat pump 5 (A5): Software version | 1      | R          |     |     |      | 62541   | 5   | 1      |
| 62162        | Värmepump 6 (A6): Mjukvaruversion     | Heat pump 6 (A6): Software version | 1      | R          |     |     |      | 62541   | 6   | 1      |
| 62163        | Värmepump 7 (A7): Mjukvaruversion     | Heat pump 7 (A7): Software version | 1      | R          |     |     |      | 62541   | 7   | 1      |
| 62164        | Värmepump 8 (A8): Mjukvaruversion     | Heat pump 8 (A8): Software version | 1      | R          |     |     |      | 62541   | 8   | 1      |
| 62165        | Värmepump 9 (A9): Mjukvaruversion     | Heat pump 9 (A9): Software version | 1      | R          |     |     |      | 62541   | 9   | 1      |



| BMS Register | Svenska                                                                                           | English                                                                                                 | Signed | Read/Write | Max | Min | Step | Visible | Bit | Factor |
|--------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------|------------|-----|-----|------|---------|-----|--------|
| 62232        | Statistik: Kompressor 10 drifttid LSB                                                             | State: Compressor 10 operating time LSB                                                                 | 0      | R          |     |     |      | 62545   | 12  | 1      |
| 62233        | Statistik: Kompressor 10 drifttid (<<16) MSB                                                      | State: Compressor 10 operating time (<< 16) MSB                                                         |        |            |     |     |      |         |     |        |
| 62234        | Statistik: Kompressor 1 senaste 24h                                                               | State: Compressor 1 last 24h                                                                            | 0      | R          |     |     |      | 62545   | 14  | 1      |
| 62235        | Statistik: Kompressor 2 senaste 24h                                                               | State: Compressor 2 last 24h                                                                            | 0      | R          |     |     |      | 62545   | 15  | 1      |
| 62236        | Statistik: Kompressor 3 senaste 24h                                                               | State: Compressor 3 last 24h                                                                            | 0      | R          |     |     |      | 62546   | 0   | 1      |
| 62237        | Statistik: Kompressor 4 senaste 24h                                                               | State: Compressor 4 last 24h                                                                            | 0      | R          |     |     |      | 62546   | 1   | 1      |
| 62238        | Statistik: Kompressor 5 senaste 24h                                                               | State: Compressor 5 last 24h                                                                            | 0      | R          |     |     |      | 62546   | 2   | 1      |
| 62239        | Statistik: Kompressor 6 senaste 24h                                                               | State: Compressor 6 last 24h                                                                            | 0      | R          |     |     |      | 62546   | 3   | 1      |
| 62240        | Statistik: Kompressor 7 senaste 24h                                                               | State: Compressor 7 last 24h                                                                            | 0      | R          |     |     |      | 62546   | 4   | 1      |
| 62241        | Statistik: Kompressor 8 senaste 24h                                                               | State: Compressor 8 last 24h                                                                            | 0      | R          |     |     |      | 62546   | 5   | 1      |
| 62242        | Statistik: Kompressor 9 senaste 24h                                                               | State: Compressor 9 last 24h                                                                            | 0      | R          |     |     |      | 62546   | 6   | 1      |
| 62243        | Statistik: Kompressor 10 senaste 24h                                                              | State: Compressor 10 last 24h                                                                           | 0      | R          |     |     |      | 62546   | 7   | 1      |
| 62244        | Programversion display månad dag                                                                  | Software version Display month day                                                                      | 1      | R          |     |     |      | 62546   | 8   | 1      |
| 62245        | Programversion display år                                                                         | Software version Display year                                                                           | 1      | R          |     |     |      | 62546   | 9   | 1      |
| 62246        | Värmesystem 1 status<br>0 = Värme från<br>1 = Semester<br>2= Nattsänkning<br>3= Till (normalläge) | Heating system 1 status<br>0 = Heating off<br>1 = Vacation<br>2= Night reduction<br>3= On (normal mode) | 1      | R          |     |     |      | 62546   | 10  | 1      |
| 62247        | Värmesystem 2 status<br>0 = Värme från<br>1 = Semester<br>2= Nattsänkning<br>3= Till (normalläge) | Heating system 2 status<br>0 = Heating off<br>1 = Vacation<br>2= Night reduction<br>3= On (normal mode) | 1      | R          |     |     |      | 62546   | 11  | 1      |
| 62248        | Värmesystem 3 status<br>0 = Värme från<br>1 = Semester<br>2= Nattsänkning<br>3= Till (normalläge) | Heating system 3 status<br>0 = Heating off<br>1 = Vacation<br>2= Night reduction<br>3= On (normal mode) | 1      | R          |     |     |      | 62546   | 12  | 1      |
| 62249        | Värmesystem 4 status<br>0 = Värme från<br>1 = Semester<br>2= Nattsänkning<br>3= Till (normalläge) | Heating system 4 status<br>0 = Heating off<br>1 = Vacation<br>2= Night reduction<br>3= On (normal mode) | 1      | R          |     |     |      | 62546   | 13  | 1      |
| 62250        | Ext buffer tank upper B41                                                                         | Ext buffer tank upper B41                                                                               | 1      | R          |     |     |      | 62546   | 14  | 0,1    |
| 62251        | Ext buffer tank lower B42                                                                         | Ext buffer tank lower B42                                                                               | 1      | R          |     |     |      | 62546   | 15  | 0,1    |
| 62252        | Ext DHW buffer tank B43                                                                           | Ext DHW buffer tank B43                                                                                 | 1      | R          |     |     |      | 62547   | 0   | 0,1    |
| 62253        | Produkttyp                                                                                        | Product type                                                                                            | 1      | R          |     |     |      | 62547   | 1   | 1      |
| 62254        | Värmepump 1 (A1): Typ                                                                             | Heat pump 1 (A1) Type                                                                                   | 1      | R          |     |     |      | 62547   | 2   | 1      |
| 62255        | Värmepump 2 (A2): Typ                                                                             | Heat pump 2 (A2) Type                                                                                   | 1      | R          |     |     |      | 62547   | 3   | 1      |
| 62256        | Värmepump 3 (A3): Typ                                                                             | Heat pump 3 (A3) Type                                                                                   | 1      | R          |     |     |      | 62547   | 4   | 1      |
| 62257        | Värmepump 4 (A4): Typ                                                                             | Heat pump 4 (A4) Type                                                                                   | 1      | R          |     |     |      | 62547   | 5   | 1      |
| 62258        | Värmepump 5 (A5): Typ                                                                             | Heat pump 5 (A5) Type                                                                                   | 1      | R          |     |     |      | 62547   | 6   | 1      |
| 62259        | Värmepump 6 (A6): Typ                                                                             | Heat pump 6 (A6) Type                                                                                   | 1      | R          |     |     |      | 62547   | 7   | 1      |
| 62260        | Värmepump 7 (A7): Typ                                                                             | Heat pump 7 (A7) Type                                                                                   | 1      | R          |     |     |      | 62547   | 8   | 1      |
| 62261        | Värmepump 8 (A8): Typ                                                                             | Heat pump 8 (A8) Type                                                                                   | 1      | R          |     |     |      | 62547   | 9   | 1      |
| 62262        | Värmepump 9 (A9): Typ                                                                             | Heat pump 9 (A9) Type                                                                                   | 1      | R          |     |     |      | 62547   | 10  | 1      |
| 62263        | Värmepump 10 (A10): Typ                                                                           | Heat pump 10 (A10) Type                                                                                 | 1      | R          |     |     |      | 62547   | 11  | 1      |
| 62264        | Värmepump 1 (A1): Kompressor model                                                                | Heat pump 1 (A1) compressor model                                                                       | 1      | R          |     |     |      | 62547   | 12  | 1      |
| 62265        | Värmepump 2 (A2): Kompressor model                                                                | Heat pump 2 (A2) compressor model                                                                       | 1      | R          |     |     |      | 62547   | 13  | 1      |
| 62266        | Värmepump 3 (A3): Kompressor model                                                                | Heat pump 3 (A3) compressor model                                                                       | 1      | R          |     |     |      | 62547   | 14  | 1      |
| 62267        | Värmepump 4 (A4): Kompressor model                                                                | Heat pump 4 (A4) compressor model                                                                       | 1      | R          |     |     |      | 62547   | 15  | 1      |
| 62268        | Värmepump 5 (A5): Kompressor model                                                                | Heat pump 5 (A5) compressor model                                                                       | 1      | R          |     |     |      | 62548   | 0   | 1      |
| 62269        | Värmepump 6 (A6): Kompressor model                                                                | Heat pump 6 (A6) compressor model                                                                       | 1      | R          |     |     |      | 62548   | 1   | 1      |
| 62270        | Värmepump 7 (A7): Kompressor model                                                                | Heat pump 7 (A7) compressor model                                                                       | 1      | R          |     |     |      | 62548   | 2   | 1      |
| 62271        | Värmepump 8 (A8): Kompressor model                                                                | Heat pump 8 (A8) compressor model                                                                       | 1      | R          |     |     |      | 62548   | 3   | 1      |
| 62272        | Värmepump 9 (A9): Kompressor model                                                                | Heat pump 9 (A9) compressor model                                                                       | 1      | R          |     |     |      | 62548   | 4   | 1      |
| 62273        | Värmepump 10 (A10): Kompressor model                                                              | Heat pump 10 (A10) compressor model                                                                     | 1      | R          |     |     |      | 62548   | 5   | 1      |
| 62274        | Börrvärde nedre tank                                                                              | Setpoint lower tank                                                                                     | 1      | R          |     |     |      | 62548   | 6   | 0,1    |
| 62275        | Ärvärde VV nedre                                                                                  | Actual temperature DHW lower                                                                            | 1      | R          |     |     |      | 62548   | 7   | 0,1    |
| 62276        | Ärvärde VV                                                                                        | Actual temperature DHW                                                                                  | 1      | R          |     |     |      | 62548   | 8   | 0,1    |
| 62277        | Ärvärde tank solsinga                                                                             | Actual temperature tank solar coil                                                                      | 1      | R          |     |     |      | 62548   | 9   | 0,1    |
| 62278        | Beräknat börrvärde för övre tank då elpatron används                                              | Calculated setpoint for upper tank when el. heater is used                                              | 1      | R          |     |     |      | 62548   | 10  | 0,1    |
| 62279        | Varmvattenkapacitet, procent                                                                      | Current DHW capacity in percent                                                                         | 1      | R          |     |     |      | 62548   | 11  | 0,1    |
| 62280        | Fläkthastighet frånluft , procent                                                                 | Exhaust fan speed percent                                                                               | 1      | R          |     |     |      | 62548   | 12  | 1      |

| BMS Register | Svenska                | English                          | Signed | Read/Write | Max | Min | Step | Visible | Bit | Factor |
|--------------|------------------------|----------------------------------|--------|------------|-----|-----|------|---------|-----|--------|
| 62281        | Högsta CO2             | Highest measured CO2             | 1      | R          |     |     |      | 62548   | 13  | 1      |
| 62282        | Högsta luftfuktighet   | Highest measured humidity        | 1      | R          |     |     |      | 62548   | 14  | 1      |
| 62283        | Tid till filterbyte, d | Days until filter maintenance    | 1      | R          |     |     |      | 62548   | 15  | 1      |
| 62284        | Status: Nattsvalka     | Ventilation night cooling status | 1      | R          |     |     |      | 62549   | 0   | 1      |

# Alarms and information texts

- 65000: Read BMS version. (R)  
0... 999: EcoLogic  
1000...1999: EZ550  
2000...2999: EZ250  
3000...3999: EH400  
4000...4999: GSI  
5000...5999: EZ350
- 65001: Sums up active alarms & info's and returns summation. (R)  
Byte0 = Number of active alarms. (max 255)  
Byte1 = Number of activa information texts.  
  
To reset alarms, write to this address. (W)  
Data = AA55
- 65002: Extended information (R)  
Bit0: Alarm has been manually reset(bit is reset once read).
- 65010...65059: Bit coded alarm buffer, bit position is alarm reference and if set the alarm is active (R)  
Bit = Alarm reference & if active
- 65060...65069: Bit coded info buffer, bit position is info reference and if set the info is active(R)  
Bit = Infotext reference & if active
- 65100: Transfer alarm or info reference into text buffer. I.e. if Bit 16 at address 65010 is set write 15 to this address to prepare reading of text buffer data (W)  
0...9999: 0 = Alarm number 0  
10000...19999: 10000 = Info number 0
- 65101...65125: Text buffer, read text data concerning either alarm or information texts.  
Read all bytes and convert into ASCII. Formatting of text is [Heat pump][Alarm number][Text data], where heat pump is only present when error/info relates to a heat pump and if so the name is A1-A10. Alarm/info number is always present and the brackets are also present, the number is a reference to the listed alarms/information. Text data is the alarm/info in text form that depends on language setting in display. (R)  
Byte0 = character 1  
Byte1 = character 2

Example of detecting and reading an alarm:

1. Poll holding register 65001 every 5 seconds and check if response is non-zero. In this example response is 0x0002 which means there are two active alarms and no active information texts.
2. Read holding registers 65010 to 65059 to determine which alarm references are set.  
Response is (hexadecimal where 65010 is first listed word and 65059 is last):  
8000,0001,0000,0000,0000,0000,0000,0000,0000,0000,0000,0000,0000,0000,0000,  
0000,0000,0000,0000,0000,0000,0000,0000,0000,0000,0000,0000,0000,0000,  
0000,0000,0000,0000,0000,0000,0000,0000,0000,0000,0000,0000,0000,0000,  
0000,0000,0000,0000,0000,0000,0000,0000,0000,0000,0000,0000,0000,0000,  
0000,0000  
Bit 16 and bit 17 are set, which gives the references needed to read respective alarm text.
3. Write 15 (15 since zero based) to holding register 65100 to fill buffer with text description of alarm reference 16.
4. Read holding registers 65101 to 65125 to get the actual text data.  
5B45 3036 335D 204B 6F6D 6D75 6E69 6B2E 6665 6C20 7265 6C61 6B6F 7274 20  
Each byte represents an ASCII character and reads as:  
[ E 0 6 3 ] K o m m u n i k . f e l r e l a k o r t  
This in turn maps to an error number in included list for a language independent error. If the error had related to a heat pump the “[E063]” would have been preceded by an “A1” to “A10”. To fetch error number two repeat procedure from step 3 but replace 15 with 16 and write it to 65100.

## Fjärrstyrningsfunktioner via BMS

OBS! Uppdatera värde minst var 5:e minut

### Samtliga styrningar

| <u>Funktion</u>                  | <u>Adress</u>      |
|----------------------------------|--------------------|
| Max RPS                          | 1002               |
| Max effekt elpatron i nedre tank | 1003               |
| Max effekt elpatron i tank övre  | 1004               |
| Virtuell digital in              | 1100 <sup>1)</sup> |

### CTC EcoLogic S

| <u>Funktion</u>                | <u>Adress</u> |
|--------------------------------|---------------|
| Start värmepump                | 1000          |
| Värmepump börvärde framledning | 1001          |

## Remote control functions through BMS

Note! Update value at least every five minutes

### All controls

| <u>Function</u>                           | <u>Address</u>     |
|-------------------------------------------|--------------------|
| Maximum RPS                               | 1002               |
| Maximum power immersion heater lower tank | 1003               |
| Maximum power immersion heater upper tank | 1004               |
| Virtual digital in                        | 1100 <sup>1)</sup> |

### CTC EcoLogic S

| <u>Function</u>                 | <u>Address</u> |
|---------------------------------|----------------|
| Start heat pump                 | 1000           |
| Setpoint heat pump primary flow | 1001           |

| <sup>1)</sup> <u>PIN</u> | <u>BIT</u> |
|--------------------------|------------|
| BMS Di 0                 | Bit 0      |
| BMS Di 1                 | Bit 1      |
| BMS Di 2                 | Bit 2      |
| BMS Di 3                 | Bit 3      |
| BMS Di 4                 | Bit 4      |
| BMS Di 5                 | Bit 5      |
| BMS Di 6                 | Bit 6      |
| BMS Di 7                 | Bit 7      |