

## Parameters/Communication Objects

The KNX 20 supports access to individual parameters of the heating control, and the KNX system supports heating control-related functions. No operations beyond the functional scope of the operating unit can be performed via the KNX 20. All changes made through the KNX system can be viewed and verified on the EMS HMI for the purpose of control.

### Overview

The meaning of each column in the following tables is as follows:

- Parameter: Communication objects in the ETS/KNX system
- R: Read permission via the ETS/KNX system
- W: Write permission via the ETS/KNX system

**Table 1 Heating system data**

| Parameter                               | R/W | Detail                                                                                             |
|-----------------------------------------|-----|----------------------------------------------------------------------------------------------------|
| Brand name                              | R   | -                                                                                                  |
| Hydraulic unit name                     | R   | -                                                                                                  |
| Heat pump unit name                     | R   | -                                                                                                  |
| System supply flow temperature          | R   | -                                                                                                  |
| Operation pressure                      | R   | -                                                                                                  |
| Outdoor temperature                     | R   | -                                                                                                  |
| State "Away" mode                       | R/W | ON/OFF                                                                                             |
| State "Holiday" mode                    | R   | -                                                                                                  |
| Errors state                            | R   | -                                                                                                  |
| Active errors                           | R   | -                                                                                                  |
| Summer/winter changeover operation mode | R/W | <ul style="list-style-type: none"><li>• Off</li><li>• Auto</li><li>• Heat</li><li>• Cool</li></ul> |

**Table 2 Heat pump data**

| Parameter                       | R/W |
|---------------------------------|-----|
| Compressor speed                | R   |
| Refrigerant circuit state       | R   |
| Low-noise operation state       | R   |
| External input 1 state          | R   |
| External input 2 state          | R   |
| External input 3 state          | R   |
| External input 4 state          | R   |
| PV system active mode state     | R   |
| Energy provider block state     | R   |
| External power limitation state | R   |
| EEBus power limitation state    | R   |

**Table 3 Auxiliary heater data**

| Parameter               | R/W |
|-------------------------|-----|
| Operation mode E-heater | R   |

**Table 4 Heating circuit data (HC1–HC4)**

| Parameter                    | R/W | Detail                                                   |                  |
|------------------------------|-----|----------------------------------------------------------|------------------|
| Remote room temperature      | R   | -                                                        |                  |
| Set desired room temperature | R/W | 5~35°C<br>Note: only available under Heating Manual mode |                  |
| Heating operation mode       | R/W | Heating system value                                     | Mapped KNX value |
|                              |     | Auto                                                     | Auto             |
|                              |     | Off                                                      | Standby          |
|                              |     | Manual                                                   | Comfort          |
| Cooling operation mode       | R/W | Heating system value                                     | Mapped KNX value |
|                              |     | Auto                                                     | Auto             |
|                              |     | Off                                                      | Standby          |
|                              |     | Manual                                                   | Comfort          |

**Table 5 Hot water data**

| Parameter                            | R/W | Detail                                                   |                  |
|--------------------------------------|-----|----------------------------------------------------------|------------------|
| Hot water temperature middle/bottom  | R   | -                                                        |                  |
| Hot water temperature top (optional) | R   | -                                                        |                  |
| Current hot water level              | R   | -                                                        |                  |
| Set hot water operation mode         | R/W | Heating system value                                     | Mapped KNX value |
|                                      |     | Own Program                                              | Auto             |
|                                      |     | Off                                                      | Off              |
|                                      |     | High                                                     | Normal           |
|                                      |     | Low/Eco                                                  | Reduced          |
| Set reduced level                    | R/W | Heating system value                                     | Mapped KNX value |
|                                      |     | Low                                                      | 0: Eco           |
|                                      |     | Eco                                                      | 1: Eco+          |
| Extra hot water mode                 | R/W | Start/Stop                                               |                  |
| Set extra hot water duration         | R/W | Step size: 60 min<br>Min: 60 min<br>Max: 2880 min (48 h) |                  |

|                                |   |                                                          |
|--------------------------------|---|----------------------------------------------------------|
|                                |   | Actual values are subject to heating appliance settings. |
| Remaining time extra hot water | R | -                                                        |

**Table 6 Energy**

| Parameter                    | R/W |
|------------------------------|-----|
| Consumption heat pump        | R   |
| Consumption auxiliary heater | R   |
| Runtime heating system       | R   |