

# Haier-Haustechnik.de MODBUS interface description domestic-hot-water-heat-pump / Brauchwasserwaermepumpe



| Bezeichnung                                                                                                                                        | Read/Write | Supported function codes | Unit | Holding Registers address | Number of registers | Minimum value | Maximum value | Data format                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------|------|---------------------------|---------------------|---------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Slave Address<br>从机地址                                                                                                                              | Read       | 0x03                     | N/A  | 0                         | 1                   | 1             | 254           | N/A                                                                                                                                                                            |
| Current mode (which mode is the BW-WP currently in --> Auto, Eco, Vac, Elec)<br>模式选择                                                               | Read/Write | 0x03/0x10                | N/A  | 1                         | 1                   | 0             | 3             | 0 AUTO<br>1 ECO<br>2 ELEC<br>3 VAC (0x03)                                                                                                                                      |
| Current mode (which mode is the BW-WP currently in --> Active, Boost, Mute, Sterilize)<br>功能开关                                                     | Read/Write | 0x03/0x10                | N/A  | 2                         | 1                   | 0000h         | FFFFh         | bit0 0 deactive 1 active<br>bit1 0 boost off 1 boost on<br>bit2 0 mute off 1 mute on (0x03)<br>bit3 0 sterilize off 1 sterilize on                                             |
| Current operating status (which heat source is currently being used --> heat pump, electric heater, heating register thermal solar/boiler)<br>运行状态 | Read       | 0x03                     | N/A  | 3                         | 1                   | 0000h         | FFFFh         | bit0 0 heat pump off 1 heat pump on<br>bit1 0 electric heater off 1 electric heater on<br>bit2 0 solar off 1 solar on<br>bit3 0 boiler off 1 boiler on                         |
| Current hot water quantity (how full is the tank --> in percent)<br>热水量                                                                            | Read       | 0x03                     | %    | 4                         | 1                   | 0             | 100           | N/A                                                                                                                                                                            |
| Target Temperature<br>目标加热温度                                                                                                                       | Read       | 0x03                     | °C   | 5                         | 1                   | 1             | 100           | N/A                                                                                                                                                                            |
| User Set temperature (enter the temperature to which the temperature should be heated --> )<br>用户设定温度                                              | Read/Write | 0x03/0x10                | °C   | 6                         | 1                   | 35            | 75            | N/A                                                                                                                                                                            |
| Current temperature of the water<br>实际温度                                                                                                           | Read       | 0x03                     | °C   | 7                         | 1                   | 0             | 100           | N/A                                                                                                                                                                            |
| Current temperature of the water tank above<br>上水箱温度                                                                                               | Read       | 0x03                     | °C   | 8                         | 1                   | 0             | 100           | N/A                                                                                                                                                                            |
| Current temperature of the water tank below<br>下水箱温度                                                                                               | Read       | 0x03                     | °C   | 9                         | 1                   | 0             | 100           | N/A                                                                                                                                                                            |
| Current ambient temperature<br>环境温度                                                                                                                | Read       | 0x03                     | °C   | 10                        | 1                   | -50           | 100           | N/A                                                                                                                                                                            |
| RTC clock<br>日期时间                                                                                                                                  | Read       | 0x03                     | °C   | 11                        | 7                   | N/A           | N/A           | byte0~1 year YY 0~99 (24 for 2024)<br>byte2~3 month MM 1~12<br>byte4~5 date DD 1~31<br>byte6~7 Week 1~7<br>byte8~9 hour 0~23<br>byte10~11 minute 0~59<br>byte12~13 second 0~59 |
| Fault code display<br>故障代码                                                                                                                         | Read       | 0x03                     | N/A  | 18                        | 1                   | 0             | 64            | 0 None<br>1~15 E1~EF<br>16~31 L0~LF<br>32~47 F0~FF<br>48~63 P0~PF<br>64 PP                                                                                                     |

|                                                                                           |      |      |     |                         |    |       |       |                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------|------|------|-----|-------------------------|----|-------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Energy consumption by heat pump (last 7 days, 12 months, 5 years)<br>压缩机耗电量               | Read | 0x03 | kWh | 19~25<br>26~37<br>38~42 | 24 | 0000h | FFFFh | byte0~1 Monday<br>byte2~3 Tuesday<br>.....<br>byte12~13 Sunday<br>byte14~15 January<br>byte16~17 February<br>.....<br>byte36~37 December<br>byte38~39 four years ago<br>byte40~41 three years ago<br>byte42~43 the year before last<br>byte44~45 last year<br>byte46~47 this year |
| Energy consumption by heat electric heater (last 7 days, 12 months, 5 years)<br>电加热耗电量    | Read | 0x03 | kWh | 43~49<br>50~61<br>62~66 | 24 | 0000h | FFFFh | byte0~1 Monday<br>byte2~3 Tuesday<br>.....<br>byte12~13 Sunday<br>byte14~15 January<br>byte16~17 February<br>.....<br>byte36~37 December<br>byte38~39 four years ago<br>byte40~41 three years ago<br>byte42~43 the year before last<br>byte44~45 last year<br>byte46~47 this year |
| Accumulated energy consumption (heating power) (last 7 days, 12 months, 5 years)<br>累计制热量 | Read | 0x03 | kWh | 67~73<br>74~85<br>86~90 | 24 | 0000h | FFFFh | byte0~1 Monday<br>byte2~3 Tuesday<br>.....<br>byte12~13 Sunday<br>byte14~15 January<br>byte16~17 February<br>.....<br>byte36~37 December<br>byte38~39 four years ago<br>byte40~41 three years ago<br>byte42~43 the year before last<br>byte44~45 last year<br>byte46~47 this year |

|                                                                |         |
|----------------------------------------------------------------|---------|
| Basic settings                                                 |         |
| The basic settings must be adjustable on the Haia control unit |         |
| Address                                                        | 1~254   |
| Mode                                                           | RTU     |
| Baudrate                                                       | 9600bps |
| Start bit                                                      | 1       |
| Data bits                                                      | 8       |
| Parity                                                         | None    |
| Stop bits                                                      | 1       |