

# VAISALA



HMP113 Order Form  
G010027EN-A  
Valid from July 2023

## HMP113 Humidity and Temperature Probe with plastic body and accuracy of ±1.5%RH

|           |                                                                          |                                                                       |        | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|-----------|--------------------------------------------------------------------------|-----------------------------------------------------------------------|--------|---|---|---|---|---|---|---|---|---|
|           | Humidity and Temperature Probe with plastic body and accuracy of ±1.5%RH | SPARE CODE                                                            | HMP113 |   |   |   |   |   | C |   |   |   |
| hardware  | 1 Output Signals                                                         | 0...1V Output                                                         | A      |   |   |   |   |   |   |   |   |   |
|           |                                                                          | 0...2.5V Output                                                       | B      |   |   |   |   |   |   |   |   |   |
|           |                                                                          | 0...5V Output                                                         | C      |   |   |   |   |   |   |   |   |   |
|           |                                                                          | 1...5V Output                                                         | D      |   |   |   |   |   |   |   |   |   |
|           |                                                                          | Scaling for 4...20 mA loop power converter <sup>1</sup>               | I      |   |   |   |   |   |   |   |   |   |
|           |                                                                          | Modbus RTU Output                                                     | M      |   |   |   |   |   |   |   |   |   |
|           |                                                                          | RS-485 Output                                                         | R      |   |   |   |   |   |   |   |   |   |
| settings  |                                                                          | Serial Interface Mode for Vaisala Host Devices (HMT120, HMT130, HM40) | V      |   |   |   |   |   |   |   |   |   |
|           | 2 Measured Parameter for Channel 1                                       | RS485 Digital Mode: All Parameters <sup>2</sup>                       | 0      |   |   |   |   |   |   |   |   |   |
|           |                                                                          | RH (0...100%)                                                         | 1      |   |   |   |   |   |   |   |   |   |
|           |                                                                          | T -40...+60 °C                                                        | 2      |   |   |   |   |   |   |   |   |   |
|           |                                                                          | Td -40...+60 °C                                                       | 3      |   |   |   |   |   |   |   |   |   |
|           |                                                                          | T -40...+80 °C                                                        | 5      |   |   |   |   |   |   |   |   |   |
|           |                                                                          | Td -40...+80 °C                                                       | 6      |   |   |   |   |   |   |   |   |   |
|           |                                                                          | Tw -40...+60 °C                                                       | 7      |   |   |   |   |   |   |   |   |   |
|           |                                                                          | h (-40...+60 kJ/kg)                                                   | 8      |   |   |   |   |   |   |   |   |   |
|           |                                                                          | Special scale, please specify parameter and range:                    | X      |   |   |   |   |   |   |   |   |   |
|           | 3 Measured Parameter for Channel 2 <sup>3</sup>                          | RS-485 or Current Interface                                           | 0      |   |   |   |   |   |   |   |   |   |
|           |                                                                          | RH (0...100%)                                                         | 1      |   |   |   |   |   |   |   |   |   |
|           |                                                                          | T -40...+60 °C                                                        | 2      |   |   |   |   |   |   |   |   |   |
|           |                                                                          | Td -40...+60 °C                                                       | 3      |   |   |   |   |   |   |   |   |   |
| hardware  | 4 Sensor Protection                                                      | Plastic Grid with Filter                                              | A      |   |   |   |   |   |   |   |   |   |
|           |                                                                          | Plastic Grid                                                          | B      |   |   |   |   |   |   |   |   |   |
|           |                                                                          | Sintered Filter AISI 316L                                             | C      |   |   |   |   |   |   |   |   |   |
|           |                                                                          | Porous PTFE Filter                                                    | D      |   |   |   |   |   |   |   |   |   |
|           |                                                                          |                                                                       |        |   |   |   |   |   |   |   |   |   |
| accessory | 5 Accessories                                                            | No Accessories                                                        | 0      |   |   |   |   |   |   |   |   |   |
|           |                                                                          | Probeholder For HMP113 and HMP63                                      | 2      |   |   |   |   |   |   |   |   |   |
|           | 7 Probe Cable Length                                                     | No Cable                                                              |        |   |   |   |   |   |   |   | 1 |   |
|           |                                                                          | Shielded Cable, 0.32m, 4-pin M8 Female Straight                       |        |   |   |   |   |   |   |   | 2 |   |
|           |                                                                          | Shielded Cable, 3.0m, 4-pin M8 Female Straight                        |        |   |   |   |   |   |   |   | 3 |   |
|           |                                                                          | Shielded Cable, 1.5 m, High Temp                                      |        |   |   |   |   |   |   |   | 4 |   |
|           |                                                                          | Shielded Cable, 3 m, High Temp                                        |        |   |   |   |   |   |   |   | 5 |   |
|           |                                                                          | FEP Shielded Cable 180°C, 3m                                          |        |   |   |   |   |   |   |   | F |   |
|           | 8 User Guide                                                             | No User's Guide                                                       |        |   |   |   |   |   |   |   | A |   |
|           |                                                                          | Multilingual Quick Guide HMP60 HMP110                                 |        |   |   |   |   |   |   |   | B |   |
|           | 9 Loop Power Converter                                                   | No Converter                                                          |        |   |   |   |   |   |   |   | 0 |   |
|           |                                                                          | Component Board 4...20 mA loop powered converter                      |        |   |   |   |   |   |   |   | I |   |
|           |                                                                          | UI-CONVERTER-ICB                                                      |        |   |   |   |   |   |   |   |   |   |

1) Select for use with 4...20 mA loop power converter. Converts output to 4 ... 20 mA signal when used with the optional 4 ... 20 mA loop converter circuit board  
2) Select this option only if you use digital communication or connect this product with Vaisala host device (such as HMT120 and RFL100)  
3) Channel 2 parameters can be selected only if Analog output signals are used ( 0... 1V, 0... 2.5V, 0...5V, 1...5V)

|        |                                                                                                                                                                                                                        |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NOTE:  | <p>Selections in bold are included in the prices of the basic versions.</p> <ul style="list-style-type: none"><li>Selections in italic are available at an extra price.</li></ul> <p>★ Suggested/default selection</p> |
| LINKS: | <p><a href="#">User Guides</a></p> <p><a href="#">Datasheet</a></p> <p><a href="#">Vaisala.com product page</a></p> <p><a href="#">Filter selection guide</a></p> <p><a href="#">Cable datasheet</a></p>               |

Example of order code with typical settings:

|                |        |   |   |   |   |   |   |   |   |   |
|----------------|--------|---|---|---|---|---|---|---|---|---|
|                |        | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1V outputs:    | HMP113 | A | 1 | 5 | A | 0 | C | 1 | B | 0 |
| Modbus output: | HMP113 | M | 0 | 0 | A | 0 | C | 1 | B | 0 |
| For HM40:      | HMP113 | V | 0 | 0 | B | 2 | C | 1 | A | 0 |

### Related Items

Shielded Cable, 3.0m, 4-pin M8, High Temp.  
Shielded Cable, 1.5m, 4-pin M8, High Temp.  
FEP Cable shielded, 3.0m 4-Pin M8 Female Straight  
Plastic Grid with Membrane Filter  
Shielded Cable, 1.5 m SAC-4-P-1.5-PUR/M 8FR SH  
Connection Cable, M8-4F 90° - open wires, 3 m  
Shielded Cable, 5 m SAC-4-P-5.0-PUR/M 8FR SH  
Shielded Cable, 10 m SAC-4-P-10.0-PUR/M8FR SH  
Shielded Cable, 20 m SAC-4P-20.0-PUR/M8FS SH  
Shielded Cable, 15 m SAC-4P-15.0-PUR/M 8FS  
Magnetic Probe Holder, 5pcs  
Flat cable, M8-4(M) - M8-4(F), 1m  
Spare Part M8 Splitter for RFL100  
Plastic Locking Bushing (3 pcs) for HMP113 Attachment to HM40 Indicator  
Connection Cable, M8-4F - Open Wires, 0.32 m  
Connection Cable, M8-4F - Open Wires, 10 m  
Shielded Cable, 1.20m 4-pin M8 Female Straight  
Connection Cable, M8-4F - Open Wires, 3 m

### Part number

225229SP  
225777SP  
226902SP  
230727SP  
231519SP  
231520SP  
231521SP  
231522SP  
235859SP  
236407SP  
ASM213382SP  
CBL210649SP  
CBL210834SP  
DRW238590SP  
HMP50Z032SP  
HMP50Z1000SP  
HMP50Z120  
HMP50Z300SP