



VAISALA

Order form

DOC216225 rev AA

Valid from: 2022-10-05 Order no.

HMP155 Humidity and Temperature Probe

| Vaisala HUMICAP [®] Humidity and 1 Probe type Signal output selection Analog output signal for CH1 - Choose option A, if no T output is desired, 4-wire measurement is used or output is RS485 Analog output signal for CH2 - Choose option A, if no T output is desired, 4-wire measurement is used or output is RS485 | 2 x voltage output (RS485 for service use) Voltage output for RH, 4-wire Pt100 output for Temperature RS485 serial output (only for probe type E) 01 V output 05 V output 010 V output 010 V output None (RS485 or 4-wire PT100 ou RH Td (-6060°C) Tw (060°C) Tw (060°C) X (0200g/kg d.a) T (-80+60°C) Special Define scale and quantity Ch None (RS485 or 4-wire PT100 ou RH Td (-6060°C) T (-80+60°C) Tdf (-6060°C) Tdf (-6060°C) | E 1 1 2 3 4 (0 100%RH) A (-76+140 °F) C (-76+140 °F) D (1+32+140 °F) E (01400gr/lb) F (-40+140 °F) G (-112+140 °F) J (1: X | | | |
|--|---|---|--------|--------------------|--|
| Analog output signal for CH1 - Choose option A, if no T output is desired, 4-wire measurement is used or output is RS485 Analog output signal for CH2 - Choose option A, if no T output is desired, 4-wire measurement is used or output is RS485 Units | RS485 serial output (only for probe type E) 01 V output 05 V output 010 V output None (RS485 or 4-wire PT100 ou RH Td (-6060°C) Tdf (-6060°C) Tw (0200g/kg d.a) T (-40+60 °C) Special Define scale and quantity Ch None (RS485 or 4-wire PT100 ou RH Td (-6060°C) T (-40+60 °C) Td (-6060°C) T (-40+60 °C) T (-80+60 °C) <th>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</th> <th></th> <th></th> <th></th> | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | |
| Analog output signal for CH1 - Choose option A, if no T output is desired, 4-wire measurement is used or output is RS485 Analog output signal for CH2 - Choose option A, if no T output is desired, 4-wire measurement is used or output is RS485 Units | 01 V output 05 V output 010 V output None (RS485 or 4-wire PT100 ou RH Td (-6060°C) Tdf (-6060°C) Tw (0200g/kg d.a) T (-40+60 °C) T (-80+60 °C) Special Define scale and quantity Ch None (RS485 or 4-wire PT100 ou RH Td (-6060°C) Tdf (-6060°C) Tdf (-6060°C) Tdf (-6060°C) Tdf (-6060°C) Tdf (-6060°C) Tw (060°C) Tw (0200g/kg d.a) T (-40+60 °C) T (-80+60 °C) T (-80+60 °C) C) Special Define scale and quantity Ch2 Ch2 Ch2 Ch2 Ch2 Ch2 Ch2 Ch2 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | |
| - Choose option A, if no T output is desired, 4-wire measurement is used or output is RS485 Analog output signal for CH2 - Choose option A, if no T output is desired, 4-wire measurement is used or output is RS485 Units | 010 V output None (RS485 or 4-wire PT100 ou RH Td (-6060°C) Tdf (-6060°C) Tw (0200g/kg d.a) T (-40+60°C) T (-80+60°C) Special Define scale and quantity Ch None (RS485 or 4-wire PT100 ou RH T (-40+60°C) T (-80+60°C) Td (-6060°C) Tdf (-6060°C) Tw (060°C) Tw (060°C) Tw (040°C) T (-40+60°C) Tw (060°C) Tw (040°C) T (-40+60°C) T (-80+60°C) | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | |
| - Choose option A, if no T output is desired, 4-wire measurement is used or output is RS485 Analog output signal for CH2 - Choose option A, if no T output is desired, 4-wire measurement is used or output is RS485 Units | None (RS485 or 4-wire PT100 ou RH Td (-6060°C) Tdf (-6060°C) Tw (0200g/kg d.a) T (-40+60°C) T (-80+60°C) T (-80+60°C) Special Define scale and quantity Ch None (RS485 or 4-wire PT100 ou RH Td (-6060°C) Td (-6060°C) Td (-6060°C) Td (-6060°C) Tw (0200g/kg d.a) T (-40+60°C) T (-40+60°C) T (-40+60°C) T (-80+60°C) Define scale and quantity </td <td>utput used) A (0 100%RH) B (-76+140 °F) C (-76+140 °F) D (+32+140°F) E (01400gr/lb) F (-40+140 °F) G (-112+140 °F) J utput used) A (0100%RH) B (-76+140 °F) C (-40+140 °F) C (-76+140 °F) C (-40+140 °F) C (-40+140 °F) G</td> <td></td> <td></td> <td></td> | utput used) A (0 100%RH) B (-76+140 °F) C (-76+140 °F) D (+32+140°F) E (01400gr/lb) F (-40+140 °F) G (-112+140 °F) J utput used) A (0100%RH) B (-76+140 °F) C (-40+140 °F) C (-76+140 °F) C (-40+140 °F) C (-40+140 °F) G | | | |
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| or output is RS485 Analog output signal for CH2 - Choose option A, if no T output is desired, 4-wire measurement is used or output is RS485 Units | x (0200g/kg d.a) T (-40+60 °C) T (-80+60 °C) Define scale and quantity Ch None (RS485 or 4-wire PT100 ou RH Td (-6060°C) Tdf (-6060°C) Tw (060°C) x (0200g/kg d.a) T (-40+60 °C) T (-80+60 °C) Special Define scale and quantity Ch2 Metric | (01400gr/lb) F (-40+140 °F) G (-112+140 °F) J utput used) A (0 100%RH) B (-76+140 °F) C (-76+140 °F) D (+32+140 °F) E (01400gr/lb) F (-40+140 °F) G | | | |
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| T output is desired, 4-wire measurement is used or output is RS485 Units | Tdf (-6060°C) Tw (060°C) x (0200g/kg d.a) T (-40+60 °C) T (-80+60 °C) T (-80+60 °C) Define scale and quantity Ch2 Metric | (-76+140 °F) D (+32+140°F) E (01400gr/lb) F (-40+140 °F) G | | | |
| 4-wire measurement is used or output is RS485 Units | Tw (060°C) x (0200g/kg d.a) T (-40+60 °C) T (-80+60 °C) Special Define scale and quantity Ch2 | (+32+140°F) E (01400gr/lb) F (-40+140°F) G | | | |
| Units | T (-40+60 °C) T (-80+60 °C) Special Define scale and quantity Ch2 Metric | (-40+140 °F) G | | | |
| | T (-80+60 °C) <u>Special</u> Define scale and quantity Ch2 Metric | | | | |
| | Metric | , | | | |
| Humidity sensor type | Non-metric | | 1 | | |
| Humidity sensor type | | | 2 | | |
| | AW20 AWOS settings General purpose | HumiCap 180R | 3 | | |
| | Composite sensor | HumiCap 180RC | 2 | | |
| | General purpose Composite sensor | InterCap InterCapC | 3 | | |
| | General purpose | HumiCap R2 | 5 | | |
| | Composite sensor | HumiCap R2C | 6 | | |
| Heating options | General purpose None | HumiCap 180R+YSI | A | | |
| - See note (*) below! | Warmed probe (only with composite sensor) | RH&T outputs only with Additional Temperature prob | | | |
| Chemical purge | Warmed probe with Xheat (only with composite sensor) None | RH&T outputs only with Additional Temperature prot | e C 0 | | |
| | Periodical (only with composite sensor) Start-up (only with composite sensor) | | 1 | | |
| | Both periodical & start-up (only with composite sensor) | | 2 3 | | |
| Sensor protection | Manual purge with MI70 (only with composite sensor) Sintered Teflon filter | | 4 | | |
| | Membrane filter | Item: 230727 | A B | | |
| Probe cable length | No cable (no counter connector) | Item: 220496 | | | |
| | 3.5 m (with 8 pin M12 female connector) 10 m (with 8 pin M12 female connector) | Item: 220496 Item: 220497 | 2 | 2 | |
| | 30 m (with 8 pin M12 female connector) | Item: 220498 | | 3 | |
| | 5 m (with 8 pin M12 female connector) 0.6m MAWS cable (8-pin, M12 at both ends) | Item: 223283 Item: 230293 | | 4 | |
| | 3 m MAWS cable (8-pin, M12 at both ends) | Item: 215494 | | 6 | |
| | 0.8 m (with 8 pin M12 female connector) MAWS201M Cable | Item: 272226 | | 7 | |
| | AWS520 Cable | | 1 | j | |
| Additional Temperature probe | None (if probe type D selected, please select option A) Additional T-probe with 2m cable | | | A B | |
| | No additional T for MAWS use (If Probe Type D Selected, I | Please Select Option A) | | C | |
| | Additional T-probe with 2m cable for MAWS use | | | D | |
| | No Additional T-probe & data format for Vaisala AWS/RWS Additional T-Probe with 2m Cable & data format for Vaisala | , | | E | |
| 0 - l'hastis | Additional T-Probe with 2m Cable, Purge & data format or | | | G | |
| Calibration | At room temperature Accredited Calibration for New Instruments (HELACCRCAL | L) | | 1 3 | |
| PC-Accessories | None | · | | A | |
| | PC connection cable (USB) MI70 connection cable | Item: 221040 Item: 221801 | | B C | |
| | PC connection cable (USB) & MI70 connection cable | | | D | |
| Installation accessories | None Installation kit to Stevenson screen | Item: 221321 | | 0 | |
| | Additional T-probe installation part to DTR502 | Item: 221321 Item: 221072 | | 1 2 | |
| | Additional T-probe installation part to DTR13 | Item: 221069 | | 3 | |
| (For production use only) | PTB330TS | | | 4A | |
| · · · | | | | Total | |
| | and additional temperature sensor is not used | | | QTY Total value | |
| output signal for Unit must be 'None' | ' and for Ch2 only Td, Tdf or x output can be selected. | | | Total value | |
| | | | | | |
| | | | | | |
| Accessories and spares | | | | | |
| | Sintered Teflon filter | 219452SP | | | |
| Accessories and spares | Sintered Teflon filter Membrane filter | 219452SP 230727SP | | | |
| Accessories and spares | Membrane filter Cable 0.8 m 8-pin M12 | 230727SP 272226 | | | |
| Accessories and spares Filters | Membrane filter Cable 0.8 m 8-pin M12 Cable 3.5 m 8-pin M12 | 230727SP 272226 220496 | | | |
| Accessories and spares Filters | Membrane filter Cable 0.8 m 8-pin M12 | 230727SP 272226 | | | |
| Accessories and spares Filters | Membrane filter Cable 0.8 m 8-pin M12 Cable 3.5 m 8-pin M12 Cable 5 m 8-pin M12 Cable 10 m 8-pin M12 Cable 30 m 8-pin M12 | 230727SP 272226 220496 223283 220497 220498 | | | |
| Accessories and spares Filters | Membrane filter Cable 0.8 m 8-pin M12 Cable 3.5 m 8-pin M12 Cable 5 m 8-pin M12 Cable 10 m 8-pin M12 | 230727SP 272226 220496 223283 220497 | | | |
| Accessories and spares Filters Cables | Membrane filter Cable 0.8 m 8-pin M12 Cable 3.5 m 8-pin M12 Cable 5 m 8-pin M12 Cable 10 m 8-pin M12 Cable 30 m 8-pin M12 USB-M12 service cable | 230727SP 272226 220496 223283 220497 220498 221040 | | | |
| Accessories and spares Filters | Membrane filter Cable 0.8 m 8-pin M12 Cable 3.5 m 8-pin M12 Cable 5 m 8-pin M12 Cable 10 m 8-pin M12 Cable 30 m 8-pin M12 USB-M12 service cable Large shield (suitable for HMP155 with additional T-probe) | 230727SP 272226 220496 223283 220497 220498 221040 DTR13 | | | |
| Accessories and spares Filters Cables | Membrane filter Cable 0.8 m 8-pin M12 Cable 3.5 m 8-pin M12 Cable 5 m 8-pin M12 Cable 10 m 8-pin M12 Cable 30 m 8-pin M12 USB-M12 service cable | 230727SP 272226 220496 223283 220497 220498 221040 | | | |
| Accessories and spares Filters Cables | Membrane filter Cable 0.8 m 8-pin M12 Cable 3.5 m 8-pin M12 Cable 5 m 8-pin M12 Cable 10 m 8-pin M12 Cable 30 m 8-pin M12 USB-M12 service cable Large shield (suitable for HMP155 with additional T-probe) Compact shield (suitable for HMP155) | 230727SP 272226 220496 223283 220497 220498 221040 DTR13 DTR503 | | | |





| | HMP155 and additional T-probe installation adapter for Stevenson screen | 221321 |
|-----------------------|---|-----------|
| Calibration accessory | MI70 measurement indicator | MI70 |
| | MI70 connection cable | 221801 |
| | HMK15 humidity calibrator (saturated salt solutions) | HMK15 |
| | HMK15 adapter fitting for 12-mm probes | 218377SP |
| Others | HMP155 connector cover for protection in wet environment | DRW236638 |
| | Protection set for calibration buttons: protective cover, 2 O- rings and protective plug | 221318 |

Restricted