

HMT317 Humidity and Temperature Transmitter

Standard probe

Vaisala HUMICAP® Humidity and Temperature Transmitter
1 Transmitter type HMT317

| | | | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|-------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| HMT310 | 7 | | | A | | | | | | | | | | | 1 | | | PRICE |

HMT310 Humidity and Temperature Transmitter series

All models

| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | PRICE | | |
|--|--|---|----------------------------|------------|---|---|---|---|---|---|----|----|----|----|----|----|----|----------|----------|--|--|
| Vaisala HUMICAP® Humidity and Temperature Transmitter | | HMT310 A 1 | | | | | | | | | | | | | | | | | | | |
| 1 Transmitter type | Wall mount transmitter | 1 | | | | | | | | | | | | | | | | | | | |
| | Probe for general use | 3 | | | | | | | | | | | | | | | | | | | |
| | Probe for pressurized processes | 4 | | | | | | | | | | | | | | | | | | | |
| | Probe for high temperatures | 5 | | | | | | | | | | | | | | | | | | | |
| | Probe for high humidities | 7 | | | | | | | | | | | | | | | | | | | |
| | Probe with extended heating for fuel cells | F | | | | | | | | | | | | | | | | | | | |
| | Probe for pressurized pipelines | 8 | | | | | | | | | | | | | | | | | | | |
| | RH+T-Td+Td+a+x+Tw+ppm+pw+pws+h | B | | | | | | | | | | | | | | | | | | | |
| | Td+Td+x with warmed RH probe | C | | | | | | | | | | | | | | | | | | | |
| 3 Mounting plate | Standard mounting plate (recommended choice) | 5 | | | | | | | | | | | | | | | | | | | |
| | Mounting plate without flange (not for outdoor use) | 6 | | | | | | | | | | | | | | | | | | | |
| 4 Power supply | 24 VDC | A | | | | | | | | | | | | | | | | | | | |
| 5 Analog output signal | Analog output channel (Ch1&Ch2) | 4... 20 mA & RS232C | 1 | | | | | | | | | | | | | | | | | | |
| | Analog output channel (Ch1&Ch2) | 0... 20 mA & RS232C | 2 | | | | | | | | | | | | | | | | | | |
| | Analog output channel (Ch1&Ch2) | 1... 5 V & RS232C | J | | | | | | | | | | | | | | | | | | |
| | Analog output channel (Ch1&Ch2) | 0... 5 V & RS232C | 4 | | | | | | | | | | | | | | | | | | |
| | Analog output channel (Ch1&Ch2) | 0... 10 V & RS232C | 5 | | | | | | | | | | | | | | | | | | |
| 6 Analog output parameters for Ch1 and Ch2 | No analog outputs | A A | | | | | | | | | | | | | | | | | | | |
| | RH (0... 100%RH) | all probes | B B | | | | | | | | | | | | | | | | | | |
| | Temperature (choose T range below) | all probes | C C | | | | | | | | | | | | | | | | | | |
| | Td (-40...+60 °C) | (-40...+140 °F) | for HMP301 probe | D D | | | | | | | | | | | | | | | | | |
| | Td (-40...+60 °C) | (-40...+140 °F) | for HMP301 probe | E E | | | | | | | | | | | | | | | | | |
| | a (0...+160 g/m ³) | (0...+69.9 gr/ft ³) | for HMP301 probe | F F | | | | | | | | | | | | | | | | | |
| | x (0...+160 g/kg d.a) | (0...+1120 gr/lb) | for HMP301 probe | G G | | | | | | | | | | | | | | | | | |
| | Tw (0...+60 °C) | (+32...+140 °F) | for HMP301 probe | H H | | | | | | | | | | | | | | | | | |
| | ppm (0...5000) | (0...5000) | all probes | J J | | | | | | | | | | | | | | | | | |
| | pw (0...+1000 hPa) | (0...+14.5 psi) | all probes | K K | | | | | | | | | | | | | | | | | |
| | pws (0...+1000 hPa) | (0...+14.5 psi) | all probes | L L | | | | | | | | | | | | | | | | | |
| | h (-40...+1500 kJ/kg) | (-9.5...+652.6 Btu/lb) | all probes | M M | | | | | | | | | | | | | | | | | |
| | Td (-40...+100 °C) | (-40...+212 °F) | HMP303/304/305/306/307/308 | N N | | | | | | | | | | | | | | | | | |
| | Td (-40...+100 °C) | (-40...+212 °F) | HMP303/304/305/306/307/308 | P P | | | | | | | | | | | | | | | | | |
| | a (0...+500 g/m ³) | (0...+218.5 gr/ft ³) | HMP303/304/305/306/307/308 | Q Q | | | | | | | | | | | | | | | | | |
| | x (0...+500 g/kg d.a) | (0...+3500 gr/lb) | HMP303/304/305/306/307/308 | R R | | | | | | | | | | | | | | | | | |
| | Tw (0...+100 °C) | (+32...+212 °F) | HMP303/304/305/306/307/308 | S S | | | | | | | | | | | | | | | | | |
| SPECIAL: | Parameters CH1: _____ CH2: _____ | X X | | | | | | | | | | | | | | | | | | | |
| NOTE: | Scale for parameters CH1: _____ CH2: _____ | | | | | | | | | | | | | | | | | | | | |
| | - Choose A for both channels when you don't use analog outputs | Ch1 Ch2 | | | | | | | | | | | | | | | | | | | |
| 8 Analog output range for temperature | No range | A | | | | | | | | | | | | | | | | | | | |
| | -60...+60 °C | (-76...+140 °F) | B | | | | | | | | | | | | | | | | | | |
| | -40...+60 °C | (-40...+140 °F) | C | | | | | | | | | | | | | | | | | | |
| | -40...+120 °C | (-40...+248 °F) | D | | | | | | | | | | | | | | | | | | |
| | -40...+180 °C | (-40...+356 °F) | E | | | | | | | | | | | | | | | | | | |
| | -20...+60 °C | (-4...+140 °F) | F | | | | | | | | | | | | | | | | | | |
| | -20...+80 °C | (-4...+176 °F) | G | | | | | | | | | | | | | | | | | | |
| | -20...+120 °C | (-4...+248 °F) | H | | | | | | | | | | | | | | | | | | |
| | 0...+60 °C | (+32...+140 °F) | J | | | | | | | | | | | | | | | | | | |
| | 0...+100 °C | (+32...+ 212 °F) | K | | | | | | | | | | | | | | | | | | |
| | 0...+120 °C | (+32...+248 °F) | M | | | | | | | | | | | | | | | | | | |
| NOTE: | special range : _____ °C/°F | X | | | | | | | | | | | | | | | | | | | |
| 9 Output units | Metric | 1 | | | | | | | | | | | | | | | | | | | |
| | Non-metric | 2 | | | | | | | | | | | | | | | | | | | |
| 10 Cable connector | 8-pole connector with 5m cable | spare 5 m cable: 212142 | | | | | | | | | | | | | | | | 4 | | | |
| | 8-pole connector with 10 m cable | spare 10 m cable: 210964SP | | | | | | | | | | | | | | | | 7 | | | |
| | 8-pole counter connector | | | | | | | | | | | | | | | | | | 5 | | |
| 11 Operating manual language | No manual | A | | | | | | | | | | | | | | | | | | | |
| | English | B | | | | | | | | | | | | | | | | | | | |
| | German | C | | | | | | | | | | | | | | | | | | | |
| | Japanese | see latest manuals online: www.vaisala.com/hmt310 | | | | | | | | | | | | | | | | D | | | |
| 12 Probe type | HMP301 | A | | | | | | | | | | | | | | | | | | | |
| | HMP303 | with 2 m cable, +80 °C | | | | | | | | | | | | | | | | B | | | |
| | | with 5 m cable, +80 °C | | | | | | | | | | | | | | | | C | | | |
| | | with 10 m cable, +80 °C | | | | | | | | | | | | | | | | D | | | |
| | | with 2 m cable, +120 °C | | | | | | | | | | | | | | | | 5 | | | |
| | | with 5 m cable, +120 °C | | | | | | | | | | | | | | | | 6 | | | |
| | | with 10 m cable, +120 °C | | | | | | | | | | | | | | | | 7 | | | |
| | HMP304 | with 2 m cable | | | | | | | | | | | | | | | | E | | | |
| | | with 5 m cable | | | | | | | | | | | | | | | | F | | | |
| | | with 10 m cable | | | | | | | | | | | | | | | | G | | | |
| | HMP305 | with 2 m cable | | | | | | | | | | | | | | | | H | | | |
| | | with 5 m cable | | | | | | | | | | | | | | | | J | | | |
| | | with 10 m cable | | | | | | | | | | | | | | | | K | | | |
| | HMP307 | with 2 m cable | | | | | | | | | | | | | | | | P | | | |
| | | with 5 m cable | | | | | | | | | | | | | | | | Q | | | |
| | | with 10 m cable | | | | | | | | | | | | | | | | R | | | |
| | HMP308 | with 2 m cable | 178 mm probe | | | | | | | | | | | | | | | | S | | |
| | | with 5 m cable | 178 mm probe | | | | | | | | | | | | | | | | T | | |
| | | with 10 m cable | 178 mm probe | | | | | | | | | | | | | | | | U | | |
| | | with 2 m cable | 400 mm probe | | | | | | | | | | | | | | | | V | | |
| | | with 5 m cable | 400 mm probe | | | | | | | | | | | | | | | | W | | |
| | | with 10 m cable | 400 mm probe | | | | | | | | | | | | | | | | Z | | |
| 13 Humidity sensor type | General purpose | HUMICAP180R | | | | | | | | | | | | | | | | | | | |