

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

**Artisan Technology Group**
(217) 352-9330 | sales@artisantg.com | artisantg.com

**Full-service, independent repair center**
with experienced engineers and technicians on staff.

**We buy your excess, underutilized, and idle equipment**
along with credit for buybacks and trade-ins.

**Custom engineering**
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

**Expert team | Trust guarantee | 100% satisfaction**

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

**Visit our website - *Click HERE***

# HMP231 Humidity and Temperature Transmitter

**For wall mounting**

| **Industrial humidity and temperature transmitter** | | **HMP231** | | | **A** | | | | | | | | | | | **A** | | | PRICE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Transmitter | **RH+T** | | **A** | | | | | | | | | | | | | | | | |
| type | *RH+T+Td* | | *B* | | | | | | | | | | | | | | | | |
| | *RH+T+a+Tw+x* | | *C* | | | | | | | | | | | | | | | | |
| | *RH+T+Td+a+Tw+x+h* | | *D* | | | | | | | | | | | | | | | | |
| | *RH+T+h* | | *F* | | | | | | | | | | | | | | | | |
| Display | **no display** | | | **1** | | | | | | | | | | | | | | | |
| | *display on transmitter cover* | | | *2* | | | | | | | | | | | | | | | |
| Probe length | **120 mm** | | | | **A** | | | | | | | | | | | | | | |
| Power supply & connectors | **24 V, no connectors** | | | | | **0** | | | | | | | | | | | | | |
| Using serial interface: | *24 V, shared connector for power supply and analog outputs* | | | | | *4* | | | | | | | | | | | | | |
| | *24 V, connector for RS232C* | | | | | *8* | | | | | | | | | | | | | |
| | *24 V, 2 connectors: RS232C and analog outputs+power supply* | | | | | *9* | | | | | | | | | | | | | |
| | *24 V, 2 connectors shared for power supply and RS485* | | | | | *9* | | | | | | | | | | | | | |
| Serial interface | **RS 232C** | | | | | | **A** | | | | | | | | | | | | |
| | *RS 485/RS 422* | | | | | | *B* | | | | | | | | | | | | |
| | *current loop* | | | | | | *C* | | | | | | | | | | | | |
| Sensor protection | **sintered stainless steel filter (16452)** | | | | | | | **1** | | | | | | | | | | | |
| | **PPS plastic grid & stainless steel netting (16720HM)** | | | | | | | **2** | | | | | | | | | | | |
| | **PPS plastic grid (16562)** | | | | | | | **3** | | | | | | | | | | | |
| Analog output signals (Ch1 and Ch2) | **4...20 mA** | | | | | | | | **A** | **A** | | | | | | | | | |
| | **0...20 mA** | | | | | | | | **B** | **B** | | | | | | | | | |
| | **0...1 V** | | | | | | | | **C** | **C** | | | | | | | | | |
| | **0...5 V** | | | | | | | | **D** | **D** | | | | | | | | | |
| | **0...10 V** | | | | | | | | **E** | **E** | | | | | | | | | |
| | | | | | | | | | | channel 1 | | | | | | | | | |
| | | | | | | | | | | channel 2 | | | | | | | | | |
| Parameters for the analog outputs (If available in the chosen transmitter type) (Ch1 and Ch2) | **RH** | **(0...100 %RH)** | | | | | | | | | **1** | **1** | | | | | | | |
| | **T** | **(range: see below)** | | | | | | | | | **2** | **2** | | | | | | | |
| | **Td** | **(-40...+60 °C)** | **(-40...+140 °F)** | | | | | | | | **3** | **3** | | | | | | | |
| | **a** | **(0...160 g/m3)** | **(0...69.9 gr/ft3)** | | | | | | | | **4** | **4** | | | | | | | |
| | **Tw** | **(0...+60 °C)** | **(+32...+140 °F)** | | | | | | | | **5** | **5** | | | | | | | |
| | **x** | **(0...160 g/kg d.a.)** | **(0...1120 gr/lb)** | | | | | | | | **6** | **6** | | | | | | | |
| | **h** | **(-40...+460 kJ/kg)** | **(-17.2...+197.8 Btu/lb)** | | | | | | | | **7** | **7** | | | | | | | |
| | | | channel 1 | | | | | | | | | | | | | | | | |
| | | | channel 2 | | | | | | | | | | | | | | | | |
| Analog output range for temperature | **-20...+60 °C** | **(-4...+140 °F)** | | | | | | | | | | | **A** | | | | | | |
| | **-40...+60 °C** | **(-40...+140 °F)** | | | | | | | | | | | **B** | | | | | | |
| | **0...+60 °C** | **(+32...+140 °F)** | | | | | | | | | | | **C** | | | | | | |
| Units (local display and serial interface) | **metric** | | | | | | | | | | | | | **1** | | | | | |
| | **non-metric** | | | | | | | | | | | | | **2** | **A** | | | | |
| Regaining option *) and sensor type | **no regaining** | **(HUMICAP K)** | | | | | | | | | | | | | | **3** | | | |
| | *regaining* | *(HUMICAP KC)* | | | | | | | | | | | | | | *2* | | | |
| Manual language | **No manual** | | | | | | | | | | | | | | | | **A** | | |
| | **English** | | | | | | | | | | | | | | | | **B** | | |
| | **German** | | | | | | | | | | | | | | | | **C** | | |
| | **French** | | | | | | | | | | | | | | | | **D** | | |
| | **Finnish** | | | | | | | | | | | | | | | | **E** | | |
| | | | | | | | | | | | | | | | | | | TOTAL | |
| | | | | | | | | | | | | | | | | | | QTY | |
| | | | | | | | | | | | | | | | | | | TOTAL VALUE | |

*) Humidity sensor regaining can be used to reduce the effects of some chemical contaminants.
If the regaining option is chosen, the sensor must be protected either with a sintered filter or with a PPS plastic grid with steel netting; the PPS plastic grid can not be used.
For further information about this option, please see product data sheet or contact Your Vaisala representative.

**Selections in bold are included in the prices of the basic versions.**
*Selections in italic are available at an extra price.*

Example of order code with typical settings:

| **HMP231** | **A** | **1** | **A** | **0** | **A** | **1** | **A** | **A** | **1** | **2** | **A** | **1** | **A** | **3** | **B** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

End customer: _____

# HMP233 Humidity and Temperature Transmitter

**With compact probe**

| **Industrial humidity and temperature transmitter** | **HMP233** | | | | | | | | | | | | | | | | | PRICE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Transmitter | **RH+T** | | | | | | | | | | | | | | | | **A** | |
| type | *RH+T+Td* | | | | | | | | | | | | | | | | *B* | |
| | *RH+T+a+Tw+x* | | | | | | | | | | | | | | | | *C* | |
| | *RH+T+Td+a+Tw+x+h* | | | | | | | | | | | | | | | | *D* | |
| | *RH+T+h* | | | | | | | | | | | | | | | | *F* | |
| Display | **no display** | | | | | | | | | | | | | | **1** | | | |
| | *display on transmitter cover* | | | | | | | | | | | | | | *2* | | | |
| Probe cable length | **2 m cable, +80 °C** | **(176 °F)** | | | | | | | | | | | **A** | | | | | |
| | *5 m cable, +80 °C* | *(176 °F)* | | | | | | | | | | | *B* | | | | | |
| | *10 m cable, +80 °C* | *(176 °F)* | | | | | | | | | | | *C* | | | | | |
| | *2 m cable, +120 °C* | *(+248°F)* | | | | | | | | | | | *D* | | | | | |
| | *5 m cable, +120 °C* | *(+248°F)* | | | | | | | | | | | *E* | | | | | |
| | *10 m cable, +120 °C* | *(+248°F)* | | | | | | | | | | | *F* | | | | | |
| Power supply, | **24 V, no connectors** | | | | | | | | | **0** | | | | | | | | |
| alarm output & | *115 V, no connectors* | | | | | | | | | *1* | | | | | | | | |
| connectors | *230 V, no connectors* | | | | | | | | | *2* | | | | | | | | |
| | *24 V, + alarm output unit (no connectors)* | | | | | | | | | *3* | | | | | | | | |
| | *24 V, shared connector for power supply and analog outputs* | | | | | | | | | *4* | | | | | | | | |
| | *24 V, as above + alarm output unit not on connector* | | | | | | | | | *5* | | | | | | | | |
| | *115 V, connector for analog outputs* | | | | | | | | | *6* | | | | | | | | |
| | *230 V, connector for analog outputs* | | | | | | | | | *7* | | | | | | | | |
| Using serial interface: | *24 V, connector for RS232C* | | | | | | | | | *8* | | | | | | | | |
| | *24 V, 2 connectors: RS232C and analog outputs+power supply* | | | | | | | | | *9* | | | | | | | | |
| | *24 V, 2 connectors shared for power supply and RS485* | | | | | | | | | *9* | | | | | | | | |
| Serial interface | **RS 232C** | | | | | | | | | | **A** | | | | | | | |
| | *RS 485/RS 422* | | | | | | | | | | *B* | | | | | | | |
| | *current loop* | | | | | | | | | | *C* | | | | | | | |
| Sensor protection | **PPS plastic grid & stainless steel netting (16720HM)** | | | | | | | | | | | **2** | | | | | | |
| Analog output | **4...20 mA** | | | | | | | | | | | | **A** | **A** | | | | |
| signals | **0...20 mA** | | | | | | | | | | | | **B** | **B** | | | | |
| (Ch1 and Ch2) | **0...1 V** | | | | | | | | | | | | **C** | **C** | | | | |
| | **0...5 V** | | | | | | | | | | | | **D** | **D** | | | | |
| | **0...10 V** | | | | | | | | | | | | **E** | **E** | | | | |
| | | | | | | | | | | | | | | channel 1 | | | | |
| | | | | | | | | | | | | | | channel 2 | | | | |
| Parameters for the | **RH** | **(0...100 %RH)** | | | | | | | | | | | | | **1** | **1** | | |
| analog outputs | **T** | **(range: see below)** | | | | | | | | | | | | | **2** | **2** | | |
| (If available in the | **Td** | **(-40...+100 °C)** | | **(-40...+212 °F)** | | | | | | | | | | | **3** | **3** | | |
| chosen tranmitter | **a** | **(0...600 g/m3)** | | **(0...262 gr/ft3)** | | | | | | | | | | | **4** | **4** | | |
| type) | **Tw** | **(0...+100 °C)** | | **(+32...+212 °F)** | | | | | | | | | | | **5** | **5** | | |
| | **x** | **(0...500 g/kg d.a.)** | | **(0...3500 gr/lb d.a.)** | | | | | | | | | | | **6** | **6** | | |
| | **h** | **(-40...1500 kJ/kg)** | | **(-17.2...644.9 Btu/lb)** | | | | | | | | | | | **7** | **7** | | |
| (Ch1 and Ch2) | | | | channel 1 | | | | | | | | | | | | | | |
| | | | | channel 2 | | | | | | | | | | | | | | |
| Analog output range | **-20...+80 °C** | | **(-4...+176 °F)** | | | | | | | | | | | | | | **A** | |
| for temperature | **-20...+120 °C** | | **(-4...+248 °F)** | | | | | | | | | | | | | | **B** | |
| | **-40...+80 °C** | | **(-40...+176 °F)** | | | | | | | | | | | | | | **C** | |
| | **-40...+120 °C** | | **(-40...+248 °F)** | | | | | | | | | | | | | | **D** | |
| | **-40...+60 °C** | | **(-40...+140 °F)** | | | | | | | | | | | | | | **E** | |
| | **0...+100 °C** | | **(+32...+212 °F)** | | | | | | | | | | | | | | **F** | |
| Units (local display | **metric** | | | | | | | | | | | | | | | **1** | | |
| and serial interface) | **non-metric** | | | | | | | | | | | | | | | **2** | | |
| Installation kit for | **no** | | | | | | | | | | | | | | | | ***A*** | |
| duct mounting | *yes: for +80 °C cable* | *(+176 °F)* | | | | | | | | | | | | | | | *B* | |
| | *yes: for +120 °C cable* | *(+248 °F)* | | | | | | | | | | | | | | | *C* | |
| Regaining option *) | **no regaining** | **(HUMICAP K)** | | | | | | | | | | | | | | | | **3** |
| and sensor type | *regaining* | *(HUMICAP KC)* | | | | | | | | | | | | | | | | *2* |
| Manual language | **No manual** | | | | | | | | | | | | | | | | | **A** |
| | **English** | | | | | | | | | | | | | | | | | **B** |
| | **German** | | | | | | | | | | | | | | | | | **C** |
| | **French** | | | | | | | | | | | | | | | | | **D** |
| | **Finnish** | | | | | | | | | | | | | | | | | **E** |

TOTAL
QTY
TOTAL VALUE

*) Humidity sensor regaining can be used to reduce the effects of some chemical contaminants.
If the regaining option is chosen, the sensor must be protected either with a sintered filter or with a PPS plastic grid with steel netting; the PPS plastic grid can not be used.
Please note that if mains power (115/230V) is selected regaining cannot be used.
For further information about this option, please see product data sheet or contact Your Vaisala representative.

**Selections in bold are included in the prices of the basic versions.**
*Selections in italic are available at an extra price.*

Example of order code with typical settings:

| **HMP233** | **A** | **1** | **A** | **0** | **A** | **2** | **A** | **A** | **1** | **2** | **A** | **1** | **A** | **3** | **B** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

End customer: _____

# HMP234 Humidity and Temperature Transmitter

**With pressure tight high temperature probe**

| **Industrial humidity and temperature transmitter** | | **HMP234** | | | | | | **1** | | | | | | | | **A** | | | PRICE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Transmitter | **RH+T** | | **A** | | | | | | | | | | | | | | | | |
| type | *RH+T+Td* | | *B* | | | | | | | | | | | | | | | | |
| | *RH+T+a+Tw+x* | | *C* | | | | | | | | | | | | | | | | |
| | *RH+T+Td+a+Tw+x+h* | | *D* | | | | | | | | | | | | | | | | |
| | *RH+T+h* | | *F* | | | | | | | | | | | | | | | | |
| Display | **no display** | | | **1** | | | | | | | | | | | | | | | |
| | *display on transmitter cover* | | | *2* | | | | | | | | | | | | | | | |
| Probe cable length | **2 m cable, +180 °C (+356 °F)** | | | | **A** | | | | | | | | | | | | | | |
| | *5 m cable, +180 °C (+356 °F)* | | | | *B* | | | | | | | | | | | | | | |
| | *10 m cable, +180 °C (+356 °F)* | | | | *C* | | | | | | | | | | | | | | |
| Power supply, alarm output & connectors | **24 V, no connectors** | | | | | **0** | | | | | | | | | | | | | |
| | *115 V, no connectors* | | | | | *1* | | | | | | | | | | | | | |
| | *230 V, no connectors* | | | | | *2* | | | | | | | | | | | | | |
| | *24 V, + alarm output unit (no connectors)* | | | | | *3* | | | | | | | | | | | | | |
| | *24 V, shared connector for power supply and analog outputs* | | | | | *4* | | | | | | | | | | | | | |
| | *24 V, as above + alarm output unit not on connector* | | | | | *5* | | | | | | | | | | | | | |
| | *115 V, connector for analog outputs* | | | | | *6* | | | | | | | | | | | | | |
| | *230 V, connector for analog outputs* | | | | | *7* | | | | | | | | | | | | | |
| Using serial interface: | *24 V, connector for RS232C* | | | | | *8* | | | | | | | | | | | | | |
| | *24 V, 2 connectors: RS232C and analog outputs+power supply* | | | | | *9* | | | | | | | | | | | | | |
| | *24 V, 2 connectors shared for power supply and RS485* | | | | | *9* | | | | | | | | | | | | | |
| Serial interface | **RS 232C** | | | | | | **A** | | | | | | | | | | | | |
| | *RS 485/RS 422* | | | | | | *B* | | | | | | | | | | | | |
| | *current loop* | | | | | | *C* | | | | | | | | | | | | |
| Sensor protection | **sintered stainless steel filter (16452)** | | | | | | | **1** | | | | | | | | | | | |
| Analog output signals (Ch1 and Ch2) | **4...20 mA** | | | | | | | | **A** | **A** | | | | | | | | | |
| | **0...20 mA** | | | | | | | | **B** | **B** | | | | | | | | | |
| | **0...1 V** | | | | | | | | **C** | **C** | | | | | | | | | |
| | **0...5 V** | | | | | | | | **D** | **D** | | | | | | | | | |
| | **0...10 V** | | | | | | | | **E** | **E** | | | | | | | | | |
| | | | | | channel 1 | | | | | | | | | | | | | | |
| | | | | | channel 2 | | | | | | | | | | | | | | |
| Parameters for the analog outputs (Ch1 and Ch2) | **RH** | **(0...100 %RH)** | | | | | | | | | **1** | **1** | | | | | | | |
| | **T** | **(range: see below)** | | | | | | | | | **2** | **2** | | | | | | | |
| | **Td** | **(-40...+100 °C)** | **(-40...+212 °F)** | | | | | | | | **3** | **3** | | | | | | | |
| | **a** | **(0...600 g/m3)** | **(0...+262 gr/ft3)** | | | | | | | | **4** | **4** | | | | | | | |
| | **Tw** | **(0...+100 °C)** | **(+32...+212 °F)** | | | | | | | | **5** | **5** | | | | | | | |
| | **x** | **(0...500 g/kg d.a.)** | **(0...3500 gr/lb d.a.)** | | | | | | | | **6** | **6** | | | | | | | |
| | **h** | **(-40...1500 kJ/kg)** | **(-17.2...644.9 Btu/lb)** | | | | | | | | **7** | **7** | | | | | | | |
| | | | channel 1 | | | | | | | | | | | | | | | | |
| | | | channel 2 | | | | | | | | | | | | | | | | |
| Analog output range for temperature | **-20...+80 °C** | **(-4...+176 °F)** | | | | | | | | | | | **A** | | | | | | |
| | **-20...+120 °C** | **(-4...+248 °F)** | | | | | | | | | | | **B** | | | | | | |
| | **-20...+180 °C** | **(-4...+356 °F)** | | | | | | | | | | | **C** | | | | | | |
| | **-40...+80 °C** | **(-40...+176 °F)** | | | | | | | | | | | **D** | | | | | | |
| | **-40...+120 °C** | **(-40...+248 °F)** | | | | | | | | | | | **E** | | | | | | |
| | **-40...+180 °C** | **(-40...+356 °F)** | | | | | | | | | | | **F** | | | | | | |
| Units (local display and serial interface) | **metric** | | | | | | | | | | | | | **1** | | | | | |
| | **non-metric** | | | | | | | | | | | | | **2** | **A** | | | | |
| Regaining option *) and sensor type | **no regaining** | **(HUMICAP K)** | | | | | | | | | | | | | | **3** | | | |
| | *regaining* | *(HUMICAP KC)* | | | | | | | | | | | | | | *2* | | | |
| Manual language | **No manual** | | | | | | | | | | | | | | | | **A** | | |
| | **English** | | | | | | | | | | | | | | | | **B** | | |
| | **German** | | | | | | | | | | | | | | | | **C** | | |
| | **French** | | | | | | | | | | | | | | | | **D** | | |
| | **Finnish** | | | | | | | | | | | | | | | | **E** | | |
| | | | | | | | | | | | | | | | | | | TOTAL | |
| | | | | | | | | | | | | | | | | | | QTY | |
| | | | | | | | | | | | | | | | | | | TOTAL VALUE | |

*) Humidity sensor regaining can be used to reduce the effects of some chemical contaminants.
Please note that if mains power (115/230V) is selected regaining cannot be used.
For further information about this option, please see product data sheet or contact Your Vaisala representative.

**Selections in bold are included in the prices of the basic versions.**
*Selections in italic are available at an extra price.*

Example of order code with typical settings:

| **HMP234** | **A** | **1** | **A** | **0** | **A** | **1** | **A** | **A** | **1** | **2** | **A** | **1** | **A** | **3** | **B** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

End customer: _____

# HMP235 Humidity and Temperature Transmitter

**With high temperature probe**

| **Industrial humidity and temperature transmitter** | **HMP235** | | | | | | | | | | | | | | | | | PRICE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Transmitter type | **RH+T** | | | **A** | | | | | | | | | | | | | | |
| | *RH+T+Td* | | | *B* | | | | | | | | | | | | | | |
| | *RH+T+a+Tw+x* | | | *C* | | | | | | | | | | | | | | |
| | *RH+T+Td+a+Tw+x+h* | | | *D* | | | | | | | | | | | | | | |
| | *RH+T+h* | | | *F* | | | | | | | | | | | | | | |
| Display | **no display** | | | | **1** | | | | | | | | | | | | | |
| | *display on transmitter cover* | | | | *2* | | | | | | | | | | | | | |
| Probe cable length | **2 m cable, +180 °C** | **(+356 °F)** | | | | **A** | | | | | | | | | | | | |
| | *5 m cable, +180 °C* | *(+356 °F)* | | | | *B* | | | | | | | | | | | | |
| | *10 m cable, +180 °C* | *(+356 °F)* | | | | *C* | | | | | | | | | | | | |
| Power supply, alarm output & connectors | **24 V, no connectors** | | | | | | **0** | | | | | | | | | | | |
| | *115 V, no connectors* | | | | | | *1* | | | | | | | | | | | |
| | *230 V, no connectors* | | | | | | *2* | | | | | | | | | | | |
| | *24 V, + alarm output unit (no connectors)* | | | | | | *3* | | | | | | | | | | | |
| | *24 V, shared connector for power supply and analog outputs* | | | | | | *4* | | | | | | | | | | | |
| | *24 V, as above + alarm output unit not on connector* | | | | | | *5* | | | | | | | | | | | |
| | *115 V, connector for analog outputs* | | | | | | *6* | | | | | | | | | | | |
| | *230 V, connector for analog outputs* | | | | | | *7* | | | | | | | | | | | |
| Using serial interface: | *24 V, connector for RS232C* | | | | | | *8* | | | | | | | | | | | |
| | *24 V, 2 connectors: RS232C and analog outputs+power supply* | | | | | | *9* | | | | | | | | | | | |
| | *24 V, 2 connectors shared for power supply and RS485* | | | | | | *9* | | | | | | | | | | | |
| Serial interface | **RS 232C** | | | | | | | **A** | | | | | | | | | | |
| | *RS 485/RS 422* | | | | | | | *B* | | | | | | | | | | |
| | *current loop* | | | | | | | *C* | | | | | | | | | | |
| Sensor protection | **sintered stainless steel filter (16452)** | | | | | | | | **1** | | | | | | | | | |
| | **PPS plastic grid & stainless steel netting (16720HM)** | | | | | | | | **2** | | | | | | | | | |
| Analog output signals (Ch1 and Ch2) | **4...20 mA** | | | | | | | | | **A** | **A** | | | | | | | |
| | **0...20 mA** | | | | | | | | | **B** | **B** | | | | | | | |
| | **0...1 V** | | | | | | | | | **C** | **C** | | | | | | | |
| | **0...5 V** | | | | | | | | | **D** | **D** | | | | | | | |
| | **0...10 V** | | | | | | | | | **E** | **E** | | | | | | | |
| | | | channel 1 | | | | | | | | | | | | | | | |
| | | | channel 2 | | | | | | | | | | | | | | | |
| Parameters for the analog outputs (If available in the chosen transmitter type) | **RH** | **(0...100 %RH)** | | | | | | | | | | **1** | **1** | | | | | |
| | **T** | **(range: see below)** | | | | | | | | | | **2** | **2** | | | | | |
| | **Td** | **(-40...+100 °C)** | **(-40...+212 °F)** | | | | | | | | | **3** | **3** | | | | | |
| | **a** | **(0...600 g/m3)** | **(0...+262 gr/ft3)** | | | | | | | | | **4** | **4** | | | | | |
| | **Tw** | **(0...+100 °C)** | **(+32...+212 °F)** | | | | | | | | | **5** | **5** | | | | | |
| | **x** | **(0...500 g/kg d.a.)** | **(0...3500 gr/lb d.a.)** | | | | | | | | | **6** | **6** | | | | | |
| | **h** | **(-40...1500 kJ/kg)** | **(-17.2...644.9 Btu/lb)** | | | | | | | | | **7** | **7** | | | | | |
| (Ch1 and Ch2) | | | channel 1 | | | | | | | | | | | | | | | |
| | | | channel 2 | | | | | | | | | | | | | | | |
| Analog output range for temperature | **-20...+180 °C** | **(-4...+356 °F)** | | | | | | | | | | | | **A** | | | | |
| | **0...+180 °C** | **(+32...+356 °F)** | | | | | | | | | | | | **B** | | | | |
| Units (local display and serial interface) | **metric** | | | | | | | | | | | | | | **1** | | | |
| | **non-metric** | | | | | | | | | | | | | | **2** | | | |
| Installation kit | **no installation kit** | | | | | | | | | | | | | | | **A** | | |
| | *aluminium flange* | | | | | | | | | | | | | | | *B* | | |
| | *steel flange* | | | | | | | | | | | | | | | *C* | | |
| Regaining option *) and sensor type | **no regaining** | **(HUMICAP K)** | | | | | | | | | | | | | | | **3** | |
| | *regaining* | *(HUMICAP KC)* | | | | | | | | | | | | | | | *2* | |
| Manual language | **No manual** | | | | | | | | | | | | | | | | | **A** |
| | **English** | | | | | | | | | | | | | | | | | **B** |
| | **German** | | | | | | | | | | | | | | | | | **C** |
| | **French** | | | | | | | | | | | | | | | | | **D** |
| | **Finnish** | | | | | | | | | | | | | | | | | **E** |

TOTAL
QTY
TOTAL VALUE

*) Humidity sensor regaining can be used to reduce the effects of some chemical contaminants.
If the regaining option is chosen, the sensor must be protected either with a sintered filter or with a PPS plastic grid with steel netting; the PPS plastic grid can not be used.
Please note that if mains power (115/230V) is selected regaining cannot be used.
For further information about this option, please see product data sheet or contact Your Vaisala representative.

**Selections in bold are included in the prices of the basic versions.**
*Selections in italic are available at an extra price.*

Example of order code with typical settings:

| **HMP235** | **A** | **1** | **A** | **0** | **A** | **1** | **A** | **A** | **1** | **2** | **A** | **1** | **A** | **3** | **B** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

End customer: _____

# HMP237 Humidity and Temperature Transmitter

**With compact probe for demanding environments**

| **Industrial humidity and temperature transmitter** | | **HMP237** | | | | | | | | | | | | | | | | PRICE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Transmitter | **RH+T** | | **A** | | | | | | | | | | | | | | | |
| type | *RH+T+Td* | | *B* | | | | | | | | | | | | | | | |
| | *RH+T+a+Tw+x* | | *C* | | | | | | | | | | | | | | | |
| | *RH+T+Td+a+Tw+x+h* | | *D* | | | | | | | | | | | | | | | |
| | *RH+T+h* | | *F* | | | | | | | | | | | | | | | |
| Display | **no display** | | | **1** | | | | | | | | | | | | | | |
| | *display on transmitter cover* | | | *2* | | | | | | | | | | | | | | |
| Probe cable length | **2 m cable, +180 °C** | **(+356 °F)** | | | **A** | | | | | | | | | | | | | |
| | *5 m cable, +180 °C* | *(+356 °F)* | | | *B* | | | | | | | | | | | | | |
| | *10 m cable, +180 °C* | *(+356 °F)* | | | *C* | | | | | | | | | | | | | |
| Power supply, | **24 V, no connectors** | | | | | **0** | | | | | | | | | | | | |
| alarm output & | *115 V, no connectors* | | | | | *1* | | | | | | | | | | | | |
| connectors | *230 V, no connectors* | | | | | *2* | | | | | | | | | | | | |
| | *24 V, + alarm output unit (no connectors)* | | | | | *3* | | | | | | | | | | | | |
| | *24 V, shared connector for power supply and analog outputs* | | | | | *4* | | | | | | | | | | | | |
| | *24 V, as above + alarm output unit not on connector* | | | | | *5* | | | | | | | | | | | | |
| | *115 V, connector for analog outputs* | | | | | *6* | | | | | | | | | | | | |
| | *230 V, connector for analog outputs* | | | | | *7* | | | | | | | | | | | | |
| Using serial interface: | *24 V, connector for RS232C* | | | | | *8* | | | | | | | | | | | | |
| | *24 V, 2 connectors: RS232C and analog outputs+power supply* | | | | | *9* | | | | | | | | | | | | |
| | *24 V, 2 connectors shared for power supply and RS485* | | | | | *9* | | | | | | | | | | | | |
| Serial interface | **RS 232C** | | | | | | **A** | | | | | | | | | | | |
| | *RS 485/RS 422* | | | | | | *B* | | | | | | | | | | | |
| | *current loop* | | | | | | *C* | | | | | | | | | | | |
| Sensor protection | **sintered stainless steel filter (16452)** | | | | | | | **1** | | | | | | | | | | |
| | **PPS plastic grid & stainless steel netting (16720HM)** | | | | | | | **2** | | | | | | | | | | |
| Analog output | **4...20 mA** | | | | | | | | **A** | **A** | | | | | | | | |
| signals | **0...20 mA** | | | | | | | | **B** | **B** | | | | | | | | |
| (Ch1 and Ch2) | **0...1 V** | | | | | | | | **C** | **C** | | | | | | | | |
| | **0...5 V** | | | | | | | | **D** | **D** | | | | | | | | |
| | **0...10 V** | | | | | | | | **E** | **E** | | | | | | | | |
| | | | | | channel 1 | | | | | | | | | | | | | |
| | | | | | channel 2 | | | | | | | | | | | | | |
| Parameters for the | **RH** | **(0...100 %RH)** | | | | | | | | | **1** | **1** | | | | | | |
| analog outputs | **T** | **(range: see below)** | | | | | | | | | **2** | **2** | | | | | | |
| (If available in the | **Td** | **(-40...+100 °C)** | **(-40...+212 °F)** | | | | | | | | **3** | **3** | | | | | | |
| chosen transmitter | **a** | **(0...600 g/m3)** | **(0...+262 gr/ft3)** | | | | | | | | **4** | **4** | | | | | | |
| type) | **Tw** | **(0...+100 °C)** | **(+32...+212 °F)** | | | | | | | | **5** | **5** | | | | | | |
| | **x** | **(0...500 g/kg d.a.)** | **(0...3500 gr/lb d.a.)** | | | | | | | | **6** | **6** | | | | | | |
| | **h** | **(-40...1500 kJ/kg)** | **(-17.2...644.9 Btu/lb)** | | | | | | | | **7** | **7** | | | | | | |
| (Ch1 and Ch2) | | | channel 1 | | | | | | | | | | | | | | | |
| | | | channel 2 | | | | | | | | | | | | | | | |
| Analog output range | **-20...+80 °C** | **(-4...+176 °F)** | | | | | | | | | | | **A** | | | | | |
| for temperature | **-20...+120 °C** | **(-4...+248 °F)** | | | | | | | | | | | **B** | | | | | |
| | **-20...+180 °C** | **(-4...+356 °F)** | | | | | | | | | | | **C** | | | | | |
| | **-40...+80 °C** | **(-40...+176 °F)** | | | | | | | | | | | **D** | | | | | |
| | **-40...+120 °C** | **(-40...+248 °F)** | | | | | | | | | | | **E** | | | | | |
| | **-40...+180 °C** | **(-40...+356 °F)** | | | | | | | | | | | **F** | | | | | |
| | **0...+100 °C** | **(+32...+212 °F)** | | | | | | | | | | | **G** | | | | | |
| Units (local display | **metric** | | | | | | | | | | | | | **1** | | | | |
| and serial interface) | **non-metric** | | | | | | | | | | | | | **2** | | | | |
| Installation kit | **no** | | | | | | | | | | | | | | **A** | | | |
| | *for duct mounting* | | | | | | | | | | | | | | *B* | | | |
| Regaining option *) | **no regaining** | **(HUMICAP K)** | | | | | | | | | | | | | | **3** | | |
| and sensor type | *regaining* | *(HUMICAP KC)* | | | | | | | | | | | | | | 2 | | |
| Manual language | **No manual** | | | | | | | | | | | | | | | | **A** | |
| | **English** | | | | | | | | | | | | | | | | **B** | |
| | **German** | | | | | | | | | | | | | | | | **C** | |
| | **French** | | | | | | | | | | | | | | | | **D** | |
| | **Finnish** | | | | | | | | | | | | | | | | **E** | |
| | | | | | | | | | | | | | | | | | | TOTAL |
| | | | | | | | | | | | | | | | | | | QTY |
| | | | | | | | | | | | | | | | | | | TOTAL VALUE |

*) Humidity sensor regaining can be used to reduce the effects of some chemical contaminants.
If the regaining option is chosen, the sensor must be protected either with a sintered filter or with a PPS plastic grid with steel netting; the PPS plastic grid can not be used.
Please note that if mains power (115/230V) is selected regaining cannot be used.
For further information about this option, please see product data sheet or contact Your Vaisala representative.

**Selections in bold are included in the prices of the basic versions.**
*Selections in italic are available at an extra price.*

Example of order code with typical settings:

| **HMP237** | **A** | **1** | **A** | **0** | **A** | **1** | **A** | **A** | **1** | **2** | **B** | **1** | **A** | **3** | **B** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

End customer: _____

# HMP238 Humidity and Temperature Transmitter

**With pressure tight high temperature probe for pipeline installations**

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Industrial humidity and temperature transmitter** | | | | | **HMP238** | | | | | | | | **1** | | | | | | | | | | | | | PRICE |
| Transmitter type | **RH+T** | | | | | **A** | | | | | | | | | | | | | | | | | | | | |
| | *RH+T+Td* | | | | | *B* | | | | | | | | | | | | | | | | | | | | |
| | *RH+T+a+Tw+x* | | | | | *C* | | | | | | | | | | | | | | | | | | | | |
| | *RH+T+Td+a+Tw+x+h* | | | | | *D* | | | | | | | | | | | | | | | | | | | | |
| | *RH+T+h* | | | | | *F* | | | | | | | | | | | | | | | | | | | | |
| Display | **no display** | | | | | | **1** | | | | | | | | | | | | | | | | | | | |
| | *display on transmitter cover* | | | | | | *2* | | | | | | | | | | | | | | | | | | | |
| Probe cable length | **2 m cable, +180 °C** | **(+356 °F)** | | | | | | **A** | | | | | | | | | | | | | | | | | | |
| | *5 m cable, +180 °C* | *(+356 °F)* | | | | | | *B* | | | | | | | | | | | | | | | | | | |
| | *10 m cable, +180 °C* | *(+356 °F)* | | | | | | *C* | | | | | | | | | | | | | | | | | | |
| Power supply, alarm output & connectors | **24 V, no connectors** | | | | | | | | **0** | | | | | | | | | | | | | | | | | |
| | *115 V, no connectors* | | | | | | | | *1* | | | | | | | | | | | | | | | | | |
| | *230 V, no connectors* | | | | | | | | *2* | | | | | | | | | | | | | | | | | |
| | *24 V, + alarm output unit (no connectors)* | | | | | | | | *3* | | | | | | | | | | | | | | | | | |
| | *24 V, shared connector for power supply and analog outputs* | | | | | | | | *4* | | | | | | | | | | | | | | | | | |
| | *24 V, as above + alarm output unit not on connector* | | | | | | | | *5* | | | | | | | | | | | | | | | | | |
| | *115 V, connector for analog outputs* | | | | | | | | *6* | | | | | | | | | | | | | | | | | |
| | *230 V, connector for analog outputs* | | | | | | | | *7* | | | | | | | | | | | | | | | | | |
| Using serial interface: | *24 V, connector for RS232C* | | | | | | | | *8* | | | | | | | | | | | | | | | | | |
| | *24 V, 2 connectors: RS232C and analog outputs+power supply* | | | | | | | | *9* | | | | | | | | | | | | | | | | | |
| | *24 V, 2 connectors shared for power supply and RS485* | | | | | | | | *9* | | | | | | | | | | | | | | | | | |
| Serial interface | **RS 232C** | | | | | | | | | **A** | | | | | | | | | | | | | | | | |
| | *RS 485/RS 422* | | | | | | | | | *B* | | | | | | | | | | | | | | | | |
| | *current loop* | | | | | | | | | *C* | | | | | | | | | | | | | | | | |
| Sensor protection | **sintered stainless steel filter (16452)** | | | | | | | | | | **1** | | | | | | | | | | | | | | | |
| Analog output signals (Ch1 and Ch2) | **4...20 mA** | | | | | | | | | | | **A** | **A** | | | | | | | | | | | | | |
| | **0...20 mA** | | | | | | | | | | | **B** | **B** | | | | | | | | | | | | | |
| | **0...1 V** | | | | | | | | | | | **C** | **C** | | | | | | | | | | | | | |
| | **0...5 V** | | | | | | | | | | | **D** | **D** | | | | | | | | | | | | | |
| | **0...10 V** | | | | | | | | | | | **E** | **E** | | | | | | | | | | | | | |
| | | | | | channel 1 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | channel 2 | | | | | | | | | | | | | | | | | | | | | |
| Parameters for the analog outputs (If available in the chosen transmitter type) (Ch1 and Ch2) | **RH** | **(0...100 %RH)** | | | | | | | | | | | | **1** | **1** | | | | | | | | | | | |
| | **T** | **(range: see below)** | | | | | | | | | | | | **2** | **2** | | | | | | | | | | | |
| | **Td** | **(-40...+100 °C)** | | **(-40...+212 °F)** | | | | | | | | | | **3** | **3** | | | | | | | | | | | |
| | **a** | **(0...600 g/m3)** | | **(0...+262 gr/ft3)** | | | | | | | | | | **4** | **4** | | | | | | | | | | | |
| | **Tw** | **(0...+100 °C)** | | **(+32...+212 °F)** | | | | | | | | | | **5** | **5** | | | | | | | | | | | |
| | **x** | **(0...500 g/kg d.a.)** | | **(0...3500 gr/lb d.a.)** | | | | | | | | | | **6** | **6** | | | | | | | | | | | |
| | **h** | **(-40...1500 kJ/kg)** | | **(-17.2...644.9 Btu/lb)** | | | | | | | | | | **7** | **7** | | | | | | | | | | | |
| | | | | channel 1 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | channel 2 | | | | | | | | | | | | | | | | | | | | | | |
| Analog output range for temperature | **-20...+80 °C** | **(-4...+176 °F)** | | | | | | | | | | | | | | **A** | | | | | | | | | | |
| | **-20...+120 °C** | **(-4...+248 °F)** | | | | | | | | | | | | | | **B** | | | | | | | | | | |
| | **-20...+180 °C** | **(-4...+356 °F)** | | | | | | | | | | | | | | **C** | | | | | | | | | | |
| | **-40...+80 °C** | **(-40...+176 °F)** | | | | | | | | | | | | | | **D** | | | | | | | | | | |
| | **-40...+120 °C** | **(-40...+248 °F)** | | | | | | | | | | | | | | **E** | | | | | | | | | | |
| | **-40...+180 °C** | **(-40...+356 °F)** | | | | | | | | | | | | | | **F** | | | | | | | | | | |
| Units (local display and serial interface) | **metric** | | | | | | | | | | | | | | | | **1** | | | | | | | | | |
| | **non-metric** | | | | | | | | | | | | | | | | **2** | | | | | | | | | |
| Installation kit | **no installation kit** | | | | | | | | | | | | | | | | | **A** | | | | | | | | |
| | *ball valve set for pipeline installations* | | | | | | | | | | | | | | | | | *D* | | | | | | | | |
| Regaining option *) and sensor type | **no regaining** | **(HUMICAP K)** | | | | | | | | | | | | | | | | | **3** | | | | | | | |
| | *regaining* | *(HUMICAP KC)* | | | | | | | | | | | | | | | | | *2* | | | | | | | |
| Manual language | **No manual** | | | | | | | | | | | | | | | | | | | ***A*** | | | | | | |
| | **English** | | | | | | | | | | | | | | | | | | | ***B*** | | | | | | |
| | **German** | | | | | | | | | | | | | | | | | | | ***C*** | | | | | | |
| | **French** | | | | | | | | | | | | | | | | | | | ***D*** | | | | | | |
| | **Finnish** | | | | | | | | | | | | | | | | | | | ***E*** | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | TOTAL | |
| | | | | | | | | | | | | | | | | | | | | | | | | | QTY | |
| | | | | | | | | | | | | | | | | | | | | | | | | | TOTAL VALUE | |

*) Humidity sensor regaining can be used to reduce the effects of some chemical contaminants.
If the regaining option is chosen, the sensor must be protected either with a sintered filter or with a PPS plastic grid with steel netting; the PPS plastic grid can not be used.
Please note that if mains power (115/230V) is selected regaining cannot be used.
For further information about this option, please see product data sheet or contact Your Vaisala representative.

**Selections in bold are included in the prices of the basic versions.**
*Selections in italic are available at an extra price.*

Example of order code with typical settings:

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **HMP235** | **A** | **1** | **A** | **0** | **A** | **1** | **A** | **A** | **1** | **2** | **A** | **1** | **A** | **3** | **B** |

End customer: _____

**Artisan Technology Group** is an independent supplier of quality pre-owned equipment

## Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

## We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

## Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP