

Temperature

Type MSTST /MSTID











| Version | Transmitter Version | | Display Version | |
|------------------------------|--|--|----------------------|---|
| Type | MSTST | MSTSD | MSTLD | MSTID |
| Description | Standard | Standard | Food | Infrared |
| Input | Pt100 | Pt100 | Pt100 | Infrared radiation |
| Output | 4...20 mA, 2-wire, HART configuration via HART interface/software | 4...20 mA, 2-wire, HART configuration via HART interface/software, Limit contacts: 2 x switching output PNP, 30 VDC, 200 mA | | |
| Measuring range | -50...200 °C | -50...200 °C | | -40...1000 °C |
| Power supply | 12...40 VDC | 12...40 VDC | | 24 VDC ±10 % |
| Display | Without | Display 4-digit, adjustable via 3 keys | | |
| Process connection | G $\frac{1}{4}$, G $\frac{3}{8}$, G $\frac{1}{2}$, G $\frac{3}{4}$, G1, $\frac{1}{4}$ NPT, $\frac{3}{8}$ NPT, $\frac{1}{2}$ NPT | G $\frac{1}{4}$, G $\frac{3}{8}$, G $\frac{1}{2}$, G $\frac{3}{4}$, G1, $\frac{1}{4}$ NPT, $\frac{3}{8}$ NPT, $\frac{1}{2}$ NPT | G $\frac{1}{2}$ Food | G $\frac{1}{2}$, G $\frac{3}{4}$, G1, $\frac{1}{2}$ NPT |
| Electrical connection | See options on page 10 | | | |
| Immersion tube length | Up to 1000 mm | Up to 1000 mm | | --- |
| Material | Housing and cover PBT GF30, Process connection stainless steel 1.4571 | Display unit polycarbonate, housing PBT GF30, Process connection stainless steel 1.4571 | | |
| Degree of protection | Minimum of IP65, electronic completely encapsulated | | | |

Type MSTSS / MSTSW


| Version | Limit Switch | Wireless Transmitter |
|------------------------------|---|--|
| Type | MSTSS | MSTSW |
| Description | Standard | Standard |
| Input | Pt100 | Pt100 |
| Output | Limit contact: 1 x switching output, NPN, 30 VDC, 200mA | Radio transceiver (868/915 MHz) |
| Measuring range | -50...200 °C | |
| Power supply | 24...30 VDC | Rechargeable Lithium-Ion battery 3.6 V / 2600 mAh |
| Display | LED red for switching status signal | LED green/red for status signal |
| Process connection | G $\frac{1}{4}$, G $\frac{3}{8}$, G $\frac{1}{2}$, G $\frac{3}{4}$, G1, $\frac{1}{4}$ NPT, $\frac{3}{8}$ NPT, $\frac{1}{2}$ NPT | |
| Electrical connection | See options on page 10 | M12 x 1 only for recharge/supply |
| Immersion tube length | Up to 1000 mm | |
| Material | Housing and cover PBT GF30, lens PMMA, process connection stainless steel 1.4571 | Housing PA6.6 GF30, lens PMMA, Process connection stainless steel 1.4571 |
| Degree of protection | Minimum of IP65, electronic completely encapsulated | |

Options

| Electrical connections* | |
|--|---|
| Plug M12 x 1, 8-pole (optional 5- or 4-pole) |  |
| Plug Deutsch DT04-4P, 4-pole |  |
| Plug Deutsch DT04-3P, 3-pole |  |
| Plug DIN Bajonett, 4-pole |  |
| Plug Super Seal 1.5, 3-pole |  |
| Cable direct outlet, x-pole |  |
| Valve plug DIN EN175301-803, 4-pole |  |
| MIL plug Amphenol PT 028-10, 6-pole |  |

* some plugs are not suitable for all ModulSensors

Accessories

HART Modem / Wireless Transmitter



| Technical data | | | |
|---------------------------------------|--|-------------------------------|---|
| Type | MSUSBM | MSUSBW | MSMUTW |
| Description | HART Modem | USB Transceiver | Rail Transceiver |
| Input | USB 2.0 (plug type A) | HF | HF |
| Output | HART (alligator clip) | USB | 0(4)...20 mA, 0...10 V, RS 232 |
| Frequency range | --- | 868/915 MHz ISM band | 868/915 MHz ISM band |
| Function | --- | Transceiver | Transceiver |
| Transmission power | --- | 3.5 mW | 3.5 mW |
| Range of transmission | --- | 500 m | 500 m |
| Housing (Degree of protection) | ABS, 105 x 66 x 20 mm (IP20) | Plastic housing ABS, black | Plastic housing PA66 GF30, DIN rail 22.5 mm |
| Power supply | 5 V via USB-Port | | 24 VDC |
| Electrical connection | USB-Plug Type A | --- | --- |
| Features | USB interface for PC configuration and calibration of HART devices | MS software up to 64 channels | Optional antenna with 2 m cable for external installation |