

M-SENS WR3

ONLINE MOISTURE MEASUREMENT FOR SOLIDS



The M-Sens WR3 sensor measures material moisture content in dust, powder, granulates, wood chips and other bulk goods

FEATURES AND BENEFITS

- Extended moisture range measurement
- Online instant accurate moisture measurement
- Extremely resistant to abrasion
- For all types of material
- High temperature version 190°C in option



TECHNICAL SPECIFICATIONS

Sensor	
Housing material	Stainless steel 1.4301
Sensor surface	Ceramic
Protection category	IP68
Material temperature	0.5 ... + 80°C (optional 190°C)
Operating pressure	1 bar
Power consumption	0.6 W
Weight	0.8 kg
Measuring range	0 ... 85 % residual moisture (depending on material)
Accuracy	0.1 % absolutely in the calibrated measuring range
Connection cable	Shielded cable 4-wired, 0.25 mm ²

MSE 300-DR	
Power supply	24 V DC $\pm$ 10%
Power consumption	20 W / 24 VA
Protection type	IP40 to EN 60 529
Ambient operating temperature	-10 ... +45°C
Dimensions	23 x 90 x 118 mm (W x H x D)
Weight	Approx. 172 g
Interface	ModBus RTU (RS 485) / USB
DIN rail fastening	DIN 60715 TH35
Connection terminals cable cross-section	0.2 - 2.5 mm ² [AWG 24-14]
Current output	1 x 4 ... 20 mA (0 ... 20 mA), load < 500 Ω (Active)
Pulse output	Open Collector - max. 30 V, 20 mA
Relay contact	Max. rated load: 250 V AC Max. peak current: 6 A Max. rated load 230 V AC: 250 VA Max. breaking capacity DC1: 3/110/220 V: 3/0.35/0.2 A Min. switching load: 500 mW (10 V / 5 mA)
Data backup	Flash memory

MSE 300-FH	
Power supply	110 / 230 V AC 50 Hz (optional 24 V DC)
Power consumption	20 W / 24 VA
Protection type	IP65 to EN 60 52910.91
Ambient operating temperature	-10 ... +45°C
Dimensions	258 x 237 x 174 mm (W x H x D)
Weight	Approx. 2.5 kg
Interface	RS 485 (ModBus RTU) / USB
Cable screw connectors	3 x M20 (4.5 - 13 mm $\emptyset$)
Connection terminals cable cross-section	0.2 - 2.5 mm ² [AWG 24-14]
Current output	3 x 4 ... 20 mA (0 ... 20 mA), load < 500 Ω (Active)
Pulse output	Open Collector - max. 30 V, 20 mA
Relay contact	Max. rated load: 250 V AC Max. peak current: 6 A Max. rated load 230 V AC: 250 VA Max. breaking capacity DC1: 3/110/220 V: 3/0.35/0.2 A Min. switching load: 500 mW (10 V / 5 mA)
Data backup	Flash memory