M-SENS NIR

CONTACTLESS ONLINE MOISTURE MEASUREMENT
FOR SOLIDS

envea
Elevating standards. For life.

M-Sens NIR delivers instant, accurate moisture measurement which helps minimize product loss, leading to better margins and increased profits

FEATURES AND BENEFITS

- Contactless online measurement
- Non-destructive for all materials
- Rugged design, IP69, ambient temperature up to 80°C
- Optional: Material temperature measurement

- Short and long-term logs
- Moisture measurement as a percentage
- oT continuous monitoring of sensor health increases uptime

certified to ATEX

www.envea.global

TECHNICAL **SPECIFICATIONS**

Sensor

Moisture range	Min: 0.1%, Max: 95% (± 0.1%)
Ambient operating temperature	0 - 80°C
Measurement area	25 mm
Product distance	20.3 - 40.6 cm
Sample rate	60 calculations/second
Power	90 - 260 V AC
Outputs	2 x 4-20 mA, optional discrete I/O
Enclosure/Weight	Aluminum / 5.4 kg
Certifications	CE, IP69
Dimensions	279.4 x 260.35 x 152.4 mm (H x L x W)
Connection cable	Shielded cable 4-wired, 0.25 mm²

Database & software interfaces

Optional Bus Interfaces	Ethernet, Ethernet/IP, Profinet, Profibus-DP, Modbus-TCP/IP, Modbus RTU, RS485, DeviceNet
Software	Windows-based application, requires Win7 or newer

Operator display (optional)

Display	7-inch color capacitive touchscreen
Power	24 VDC
Cable	Ethernet
Enclosure/Weight	Aluminum / 1.8 kg
Ambient operating temperature	0 to 50°C
Dimensions	241.3 x 158.75 x 69.85 mm (W x L x H)

Accessories (optional)

Temperature Sensor	Measures material in 0 - 400°C range
Opto-Port attachment	This stainless steel attachment allows the sensor to adapt to a variety of situations such as screw conveyors and free fall conveyors. Can be ordered with an air blast system for free falling samples.
Dust shield	Ensures the sensor will provide consistent and accurate results by preventing the build-up of dust and grime on the lens
OPTO 22 Discrete I/O	Output for alarms (LOP, HH, H, L, LL)

279,4 mm

260,35 mm

119,38 mm

152,4 mm

Ø 22 mm

www.envea.global