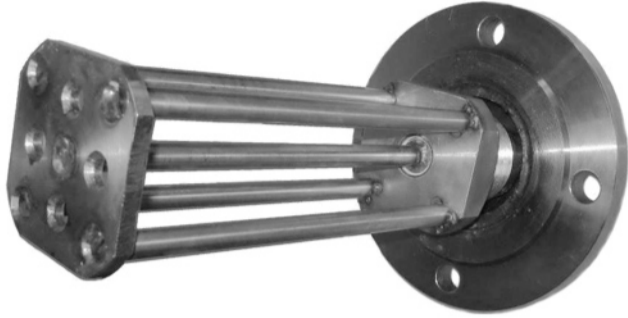




Moisture Sensor PCE-MWM 200



PCE-MWM 200 Microwave - sensor / continuous Moisture Content in Oil, Diesel, fuel, sand, gravel

The moisture meter is a sensor for measuring moisture of sand consisting of a central probe surrounded by four other probes. The probes and sensor housing are made of stainless steel AISI 321. Our microwave - moisture meter is ideal for installation in tanks with liquid materials such as fuel oil, sludge from cement production, fuels (CWF). Bolt diameter - 12 mm, distance between the central and the surrounding probes - 25 mm. This large distance between the probes ensures high resistance to clogging.

The top of the sensor serves as a coupling with a female thread, which enables the mounting of the sensor on a pipe with a 33 mm diameter. The cable that connects the sensor and the electronic unit is installed in the airtight tube. Such a sensor assembly allows variations of the immersion depth into a container and humidity measurements at various levels.

Stainless steel - use and special dielectric spacers offer high corrosion resistance. Furthermore, this allows moisture measurement in pipes with temperatures up to 145 °C. On request, by using ceramic materials, measurement of temperatures up to +800 °C would also be possible. In this case, the accuracy of humidity measurement remains practically unchanged.

Subject to change

Specifications

Technical Data:

Mass fraction of water readability	0 ... 100 %
Moisture measurement range	±0.1 ... 100 % (Water mass fraction)
Maximum permissible absolute error moisture measurement	Varies by material, lab test required
Temperature measurement range	+5 ... +76 °C
Maximum permissible absolute error temperature measurement	±1 °C
Outputs	RS 485 Modbus RTU / 4-20 mA
Power supply	24 V / 18-36 V
Input power	200 mA
Sensor dimensional	335 x 80 x 80 mm
Sensor weight	8 kg
Inputs	2 x digital 24 VDC
Operating temperature range	
- Normal industrial plant	-20 ... +120 °C
- With extended temperature protection	-20 ... +145 °C
- Ambient temperature electronics unit	-20 ... +80 °C
Dimensions electronics unit	255 x 170 x 60 mm
Mass of the electronics unit	2 kg
Life span (approx.)	10 years

Please note that we will need further information to provide a final price for supply and fit. We will need to know what materials are to be measured, we will need samples of the material, and we will need a technical drawing showing where the sensor is to be installed.

More information

More product info



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