



FP-24C Flush Mounted On-Line Moisture Sensor

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- **Monitors particulate moisture content in physically hostile environments such as mixers, chutes, belt conveyors, augers, ...**
- **A reliable, economical solution for many moisture monitoring problems**

The FP Series Flush Mounted On-Line Moisture Sensors are designed specifically for mechanically hostile environments and feature proven capacitive moisture sensing with a patented flat plate configuration. This allows mounting in a mixer, an auger, a chute, or a sled riding on granular material being transported by a belt conveyor.

Sensor output can be displayed on an LCD and/or transmitted as an analog signal for integration into a process control system. Temperature data are also readily available.



Measurement Accuracy:

Sample temperature	±1°F
Particulate moisture content (typical)	±0.25%

Outputs:

Moisture	4 to 20 mA
Temperature	4 to 20 mA

Calibration:

Moisture content	4 to 20 mA
Gain and Offset	adjustable (DiMDI required)
Frequency	selectable (DiMDI required)

Operation:

Minimum sample depth	4 inches (10 cm)
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Operational Temperatures:

Sensor, ambient	-40°F to 180°F
Particulate Sample	0°F to 200°F (Others optional)

Electrical Power:

Required	12 to 36 V DC
Consumption	3 watts maximum

Physical Size:

Surface Dimensions (inches)	4.625 X 7.625
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Materials of Construction

Sensor surface	Ceramic
Sensor body	Hardfaced aluminum

Options:

Sensor body	316 stainless steel
MDS Control/Display	can operate 1 or 2 sensors
Digital Moisture Display Interface (DiMDI)	sensor controller
Defined Area Flow Restrictor (DAFR)	for chute mounting
Sled Mount	for belt conveyor mounting
Hinged Door Mount (shown)	for mixer or auger mounting