



FP-21C Flush Mounted On-Line Moisture Sensor

Reg. U.S. Pat. Off. No. 6,249,130 B1

- **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 in 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:

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

Outputs:

Moisture	0 to 5 V DC
Temperature	0 to 2 V DC

Calibration:

Moisture content (nominal)	1 V DC = 10% moisture content
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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 100°F (Others optional)

Electrical Power:

Required	10 to 12 V DC
Consumption	2 watts maximum

Physical Size:

Surface Dimensions (inches)	4.625 X 7.625
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Materials of Construction

Sensor face	Ceramic
Sensor body	Hardfaced Aluminum

Options:

Sensor body	316 Stainless Steel
MDS Control/Display	can operate 1 or 2 sensors
Defined Area Flow Restrictor (DAFR)	for chute mounting
Sled Mount	for belt conveyor mounting
Hinged Door Mount (shown)	for mixer or auger mounting