



FT-11 On-Line Moisture Sensor

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- **Accurately monitors flowing particulates for moisture content**
- **Reliable, economical solution for many moisture monitoring problems**

The FT Series On-Line Moisture Sensors are rugged devices combining proven capacitive moisture sensing technology with an innovative flow-through sample cell to provide accuracy and precision not available from any other sensor, particularly with materials not varying greatly in bulk density.

The sensor output may be displayed on an attractive panel meter and/or transmitted as an analog signal for integration into a processes control system. Temperature data are also readily available.



Measurement Accuracy:

| | |
|--|-------------------------|
| Particulate temperature | $\pm 1^{\circ}\text{F}$ |
| Particulate moisture content (typical) | $\pm 0.25\%$ |

Outputs:

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

Calibration:

| | |
|--|-------------------------------|
| Particulate moisture content (nominal) | 1 V DC = 10% moisture content |
|--|-------------------------------|

Operation:

| | |
|--------------------------|-----------------------|
| Minimum particulate flow | 150 pounds per minute |
|--------------------------|-----------------------|

Operational Temperatures:

| | |
|--------------------|---|
| Sensor, ambient | -40°F to 120°F |
| Particulate sample | 0°F to 100°F standard |

Electrical Power:

| | |
|-------------|---------------|
| Required | 10 to 12 V DC |
| Consumption | 2W maximum |

Materials of Construction

| | |
|-------------|-------------------------------|
| Sensor Face | ceramic |
| Sensor Body | UHMW or Tyvar |
| | stainless steel wear surfaces |

Options:

| | |
|--------------------------------|-------------------------|
| Moisture Display/Control (MDS) | operates 1 or 2 sensors |
| Mounting box | |
| Mounting plate | |