

Moisture Sensor for Rotating Pan, Static Pan and Planetary Mixers

Hydro-Probe Orbiter



THE ORIGINAL – THE LEADERS – THE BEST

Technical Information

Construction

Body: Stainless Steel (AISI 304) Sensing Head: Hardened Ceramic

Fixing

Sensor is typically clamped to a vertical 25mm (1 inch) square mild steel bar (supplied by customer) welded to the rotating scraper blade arm. Recommended fixing details for rotating pan and static pan mixers available on request.

Moisture Range

The sensor will measure up to saturation of material

Penetration of Field

Approximately 75-100mm dependant upon material.

Operating Temperature

Electronics: 0-60 degrees C.

Sensing Head: 0-45 degrees c The sensor will not measure ice.

Digital (Serial) Communication

Opto-Isolated RS485 2-wire port. RS232 converter, Ethernet and USB interfaces available.

Programming details to access sensor values and parameters are available on request.

Inputs and Outputs

Available for applications when the sensor is static and connected by a standard cable

Analogue Outputs: Two configurable 4-20mA or 0-20mA current loop source available for moisture and temperature. May also be converted to 0-10V DC.

Discrete Inputs/Outputs: Two inputs available for "batch average", start/stop or moisture temperature multiplexing. One output available to indicate "out of range".

Refresh Rate

25 times per second

Grounding

The sensor body is connected to the cable shield. Ensure equipotential bonding of all exposed metalwork. In areas of high lightening risk correct and adequate protection should be used.

Extension Cable

Static Sensor Applications: Six twisted pairs, 22AWG, 0.35mm² conductors. Screen braid with 65% minimum coverage plus aluminium/ polyester foil. Maximum cable run of 100m.

Power Supply

Choice of Lengths available

+15V to +30V DC, 4W.











Jamieson Equipment Company www.jamiesonequipment.com toll free 800.875.0280