Process Insights
Premium Insights Into Process

COSAXENTAUR

MULTI-CHANNEL MOISTURE MONITOR

CTM™

CONTROL. TRACE. MONITOR.

MULTI-CHANNEL MOISTURE MONITOR

Designed for demanding process control applications. Standard features include a full 6-backlit displays with bar graph, on-screen custom engineering units, and maximum/minimum display capabilities.

Features

- 4 to 6 multi-channel monitoring outputs
- 4-20 mA Input
- 5 Digit LCD, 0.6” (15.2 mm) high
- 2 V Drop (5.7 V with backlight)
- Custom Engineering Units & Bar Graph
- FM Type 4X, IP65 Front
- Linear, Square Root, or Programmable Exponent
- Loop-Powered Backlight Standard
- Maximum & Minimum Display
- NEMA 4X Enclosure
- Operating Temperature Range -30 to 65°C
- Shallow Depth Case 3.2” Behind Panel
- HART Protocol Transparent
- Backlight display comes standard

Applications

- Petrochemical
- Industrial gas
- Furnace gas/heat treating
- Natural gas production and processing
- Hydrogen production, storage, and transportation
- LNG production processing/eceiving terminals
- Offshore export pipeline natural gas
- Transmission pipeline monitoring
- Power generation
- Air dryer
- Pharmaceuticals

Easy Installation

Use inside or outside, in all climates, our monitors can be installed just about anywhere. The small footprint, loop-powered backlight, and wide temperature range are all standard features for easy use and low maintenance.

User Menu

The set up is an easy process. Functions not needed for most applications are under the "Advanced Features" menu. Press and hold the Menu button for five seconds to access the advanced features of the meter.

Designed for permanent installations and works with the COSA NEW LPDT2, LPDT, and HDT Series dew point transmitters.

DISPLAY

- 5 Digits, 0.6” High
- Bar graph
- Custom Engineering Units
- Engineering Notation
- Standard Backlight
- Trend Arrow

Hyper Thin-Film™ Al_2O_3 Moisture Sensor Technology Advantage

Our NEW LPDT2, LPDT, and HDT Series dew point transmitters use our COSA Xentaur Hyper-Thin-Film™ (HTF) high capacitance aluminum oxide sensor with a measuring range of -100°C to +20°C (-148°F to +68°F) (dp). The COSA Xentaur HTF sensors provide a degree of accuracy, speed of response and stability unavailable from instruments using conventional aluminum oxide or polymer sensors.

SPECIFICATIONS: MULTI-CHANNEL MOISTURE MONITOR

Display: 5 digit LCD (-99999 to 99999), 0.60" (15.2 mm) high, 7-segment, automatic lead zero blanking
Engineering Units: 0.25" (6.4 mm) high, 14-segment
Bar Graph: 20-segment, 0-100% indication
Trend Arrows: Up and down trend indication
Backlight: Bright orange LED (intensity varies with signal)
Front Panel: FM Type 4X, IP65; panel gasket provided
Display Update Rate: 2.5/second
Over Range: Display flashes 99999
Under Range: Display flashes -99999
Programming Method: Four front panel buttons
Noise Filter: Programmable from 1 to 199
Recalibration: Recommended at least every 12 months
Max/Min Display: Max/min readings reached by the process are stored until reset by the user or until power to the meter is turned off
Password: Programmable password restricts modification of programmed settings **Non-Volatile Memory:** All programmed settings are stored in non-volatile memory for a minimum of ten years if power is lost
Voltage Drop: 2.0 V max w/o backlight, 5.7 V max with backlight.
Equivalent Resistance: 100 Ω @ 20 mA without backlight, 285 Ω @ 20 mA with backlight
Normal Mode Rejection: 64 dB at 50/60 Hz
Operating Temperature Range: -30 to 65°C
Allowable Temperature Range: -40 to 65°C; below -30°C the LCD becomes less readable
Storage Temperature Range: -40 to 85°C
Relative Humidity: 0 to 90% non-condensing
Connections: Screw terminals accept 12 to 22 AWG wire

INPUT

Input Range: 4-20 mA
Accuracy: ±0.03% of span ±1 count, square root and programmable exponent: 10-100% FS
Calibration: Scale without signal or calibrate with signal source
Calibration Range: User programmable over entire range of meter
Minimum Span: 0.40 mA between input 1 and input 2 - an error message will appear if input 1 and input 2 signals are too close together
Input Overload: Over current protection to 2 A maximum
Decimal Point: Up to 4 places (d.dddd, dd.ddd, ddd.dd, dddd.d, or ddddd)
Function: Linear, square root, or programmable exponent
Low-Flow Cutoff: -99999 to 99999 (-99999 disables cut-off function)
Temperature Drift: 50 PPM/°C from -40 to 65°C ambient

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MULTI-CHANNEL
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GAIN REAL-TIME INSIGHT INTO YOUR PROCESS

Process Insights manufactures and delivers premium sensors, monitors, detectors, analyzers, instrumentation, and software that are mission-critical to keep your operations, personnel, and the environment safe – every day across the globe.

Get the most reliable, precision analytical technologies available on the market today. We will work to match your needs and budget, and provide the optimal, and most stable process analysis solution for your application.

CENTERS OF EXCELLENCE | PROVIDING PROVEN SOLUTIONS

Process Insights is committed to solving our customers' most complex analytical, process, and measurement challenges everyday.

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For a complete list of sales & manufacturing sites, please visit:
https://www.process-insights.com/about-us/locations/

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