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ГИГРОМЕТРЫ ТОЧКИ РОСЫ

ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ



Moisture Measurement to Fit Your Application

Whatever your moisture challenge, we have the answer: from simple transmitters, to complete hygrometer sampling systems



Transmitters



On-Line Hygrometers



Hygrometer Sampling System

Michell offers a broad range of sensors with associated display and sampling systems for dew-point measurement applications, from trace moisture measurements, to compressed air quality ranges class 1 to 6 — meeting the needs of a broad range of industrial and process industries.

Our high capacity automated calibration system ensures short lead times and reliable deliveries for large orders.

Typical Applications

Industrial

- Air dryers — class 1 to 6
- Switchgear SF6 quench gas
- Medical dryers
- Membrane and desiccant dryers
- Plastic injection molding
- Refrigerant dryers

Heavy Industrial

- Automotive
- Aerospace
- Hydrogen fuel cells
- Marine inert gas generation
- Glove boxes
- Rail systems

Process

- Natural gas processing / transmission
- Hydrogen coolants
- LNG and LPG production
- Inert and bulk gases
- Hydrocarbon refinery processing

Controlled Environment

- Industrial gas production and distribution
- Semiconductor fabrication
- Fiber optic production
- Electronic component manufacture
- Optical coating processes





Product Guide

Industrial Transmitters

Michell offers a family of reliable industrial dew-point transmitters providing accurate, stable measurement to cover any global dryer application.



Easidew Transmitter

Simple to install and maintain, the Easidew Transmitter meets all industrial dryer requirements. The Easidew I.S. has global intrinsically safe certifications to ensure world-wide acceptance.

- Measurement range -100 to $+20^{\circ}\text{Cdp}$
- Dew-point or ppm_v moisture content output
- 2-wire loop powered connection
- Accuracy $\pm 2^{\circ}\text{Cdp}$
- Traceable calibration certificate
- Power supply 12 to 28 V DC
- 450 bar process pressure capability
- Easidew I.S. has IECEx, cCSA_{US} , FM and ATEX approval
- 5/8" UNF, G1/2" BSP, 3/4" UNF process connections
- Rugged 316 stainless steel IP66 construction

SF52 Transmitter

A simple, cost effective sensor designed for use in harsh industrial dryer applications where reliability and toughness are required at an economical cost.



- Measurement range -40 to $+60^{\circ}\text{Cdp}$
- Dew-point output
- 3-wire loop powered or voltage output
- Accuracy $\pm 2^{\circ}\text{Cdp}$
- Traceable calibration certificate
- Power supply 8 to 30 V DC
- G1/2" BSP and 1/2" NPT process connections
- Robust IP66 construction

Product Guide

Process Transmitters

Michell offers a family of durable process transmitters to meet any type of global process plant moisture measurement.



Easidew PRO Intrinsically Safe Transmitter

The Easidew PRO I.S. is an intrinsically safe transmitter designed for moisture in gas and liquid applications.

- Measurement range -110 to $+20^{\circ}\text{Cdp}$
- Dew-point or ppm_v moisture content output
- Accuracy $\pm 1^{\circ}\text{Cdp}$
- 450 bar process pressure compatibility
- Intrinsically safe IECEx, cCSA_{US} , FM, ATEX approval
- BS EN 10204 3.1 material certification



Easidew PRO Explosion Proof Transmitter

An explosion proof moisture transmitter to measure dew-point and moisture content in gases and liquids, with no galvanic isolation requirements.

- Measurement range -110 to $+20^{\circ}\text{Cdp}$
- Dew-point or ppm_v moisture content output
- Accuracy $\pm 1^{\circ}\text{Cdp}$
- 450 bar process pressure compatibility
- Explosion proof IECEx, cCSA_{US} , ATEX approval
- BS EN 10204 3.1 material certification



Pura Trace Moisture Transmitter

A self-contained hygrometer designed specifically for the measurement of trace moisture content in high purity gases.

- Measurement range down to -120°Cdp
- Dew-point or ppm_v moisture content output
- Accuracy $\pm 1^{\circ}\text{Cdp}$
- Analog and digital outputs
- Dual 1/4" VCR process connection
- Optional local display/alarm meter



Product Guide

On-Line Hygrometers

A combination of a dew-point transmitter with a display. Michell's on-line hygrometers are quickly installed to provide local on-line readings with a display and retransmitted control signal.

Easidew Online Dew-Point Hygrometer

This panel or bench-top display combines with the Easidew Transmitter series offering digital and analog outputs, alarms and an easy to read display.

- Measurement range -100 to $+20^{\circ}\text{Cdp}$
- Accuracy $\pm 2^{\circ}\text{Cdp}$
- Supply voltage 85 to 264 V AC
- RS232, mA outputs
- Sample block available to ensure optimal air flow for measurement



Cermet II Advanced Online Hygrometer

An advanced industrial monitor plus digital output moisture transmitter providing a selection of output units and alarm settings.

- Measurement range -100 to $+20^{\circ}\text{Cdp}$
- Accuracy $\pm 1^{\circ}\text{Cdp}$
- Manual or active pressure input compensation
- RS485, mA, voltage outputs
- Alternative moisture content scales
- Up to 4 relay outputs



Pura Advanced Online Hygrometer

An advanced online display combined with a digital output dew-point transmitter to provide flexibility and high accuracy.

- Measurement range -120 to -40°Cdp
- Accuracy $\pm 1^{\circ}\text{Cdp}$
- Manual or active pressure input compensation
- RS485, mA, voltage outputs
- Alternative moisture content scales
- Up to 4 relay outputs



Product Guide

Hygrometer Sampling Systems

A combination of a dew-point measurement system with sample gas filtration and flow control supplied in a variety of formats from economical to higher performance application-specific samplers.



Easidew Sampler

A low-cost, self-contained sampling system with filtration and flow control, to measure either pressure or atmospheric dew points.

- Universal configuration for atmospheric or line pressure dew-point measurements
- Integral particulate filter
- Metering valve for flow control
- Single block design for faster measurement response
- 10 barg max sample pressure (high pressure option to 210 barg available)



Drycheck

A simple and efficient, self-contained dew-point hygrometer, with filtration and flow control, for measurement of dew point or moisture content.

- Integrated instrument and sampling system
- Simple installation
- Dew-point or moisture content
- Analog output, display and dual alarms
- IP65 (NEMA 4) enclosure



ES20 Compact Sampling System

Designed to protect your moisture measurement in a wide variety of industrial applications at elevated pressures up to 20 barg, the ES20 is an economical high quality system with short lead time.

- Stainless steel tube and fittings
- Flexible filtration options
- 6mm or 1/4" tube fittings
- Stainless steel, GRP enclosures
- Optional displays

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