

Easidew Online

Dew-Point Hygrometer

An panel- or bench- mounting hygrometer with digital display, analogue and digital outputs and dual alarm feature, offering excellent reliability and repeatability



Features

- Dew point or ppm moisture content
- Analogue and digital outputs
- IP66 (NEMA 4) Sensor and IP65 (NEMA 12) Monitor (front panel only)
- Excellent sensor protection
- -100 to +20°C total dew point range
- Dual alarms
- Clear and easy to read display



Applications

- Compressed air dryers- dew point dependent switching
- Industrial and medical gases
- Glove boxes
- SF₆ measurement in high voltage switchgear
- Ozone generators
- Plastic moulding dryers
- ... and many more

Easidew Online

Affordable, Simple Dew Point Measurement

The Easidew Online Hygrometer has been designed to make continuous measurement of the dew point in air and gases simple and reliable. The 1/8 DIN display unit is connected to the Easidew Transmitter sensor module, which may be permanently installed in a plant or process location at a distance of up to 800 m from the display. An analogue output is provided for re-transmission to a chart recorder or data-logger. Two alarm relays, adjustable via the front panel touch switches allow control of the monitored process.

Advanced Technology and Michell's Calibration Exchange Programme

The key to the Easidew Transmitter's performance is its sensor technology. Michell's Advanced Ceramic Moisture Sensor is coupled with the latest microprocessor based measurement circuitry to produce a fully calibrated and interchangeable transmitter. All calibration data is stored within the transmitter's flash memory and so calibration exchange or service can be effected in seconds, even by untrained personnel. The Easidew Transmitter is simply disconnected, removed from its sampling block and replaced by a new, fully calibrated unit. Ask your local sales representative for further details on the unique Calibration Exchange Programme.

Furthermore, the Easidew Transmitter forms the front-end of both the Easidew Online and Portable Hygrometers.

Continuous In-Process Measurement

Easidew Online is designed to give continuous, reliable measurement of dew point in air or gas system. The Easidew Transmitter puts intelligent dew point control right at the measurement point, transmitting calibrated data back to the monitor unit, which can be located anywhere up to 800 m away. Thus, you can be sure that the Easidew Online Hygrometer will always be giving you vital, real-time information on the quality of air from your dryer system, or the gas in your process line. Easidew Online's sensor can operate at any pressure up to 40 MPa (400 Barg) when used with its stainless steel sampling block, supplied as standard. The Easidew Online can also be used with the Easidew Sampler (see Easidew Sampler datasheet). The Sampler is a self-contained sampling system providing filtration and flow control for either pressure or atmospheric dew points.

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Easidew Online

Dew-Point Hygrometer

Clear and easy to read display



Dew point or ppm moisture content

Related Products



Easidew TX

Easidew Sampler

Analogue and digital output

-100 to +20°C total dew point range

Excellent sensor protection

Measurement in Your Control

The Easidew Online Hygrometer features an extremely clear and bright 20 mm red LED display. It provides a 4-20 mA analogue or RS232 digital output for connection to a chart recorder, data-logger or computer system, enabling the user to analyse dew point trends over defined time. In addition, the Easidew Online includes 2 alarms that can be easily configured by the user. Each of these alarms has a relay contact. This feature makes the Easidew Online ideal for the monitoring and control of desiccant dryers or other critical applications.

Standardised Design

The Easidew Online Hygrometer is a compact hygrometer, with a standard 1/8 DIN layout (96 x 48 mm) requiring clearance depth of only 85 mm. Front panel buttons for alarm setting are protected to IP65 (NEMA 12).

Rugged yet Lightweight Sensor

The Easidew Transmitter is constructed in 316 grade stainless steel. A captive sealed, glanded cable connector offers IP66 (NEMA 4) protection from the environment. This rugged construction makes it perfectly suited for industrial applications whilst, weighing only 150 g, it is light enough to be supported directly by its connection to a 6 mm or ¼ inch sample pipe without any additional mounting brackets.

Reproducibility and Calibration Integrity

For over thirty years Michell has been developing and refining the sensor technology to ensure that every sensor performs to your expectations. Each Ceramic Moisture Sensor goes through a multi-mode test and inspection process before calibration to verify its reliability. The calibration process itself takes more than one week, where rigorous checks on the sensor performance are carried out at thirteen points across the measurement range. Only when the sensor has passed all these stringent checks is it ready to be applied to critical process control application.

Traceable Calibration

Each Easidew Online is supplied with a calibration certificate traceable to national standards from Michell Instruments accredited laboratory



Cermet II



S8000

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice.



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Dew-Point Hygrometer

Technical Specifications

Measurement range	-100 to +20°C dew point -148 to +68°F dew point 0 - 3000 ppm _v ppm _v output or non-standard dew point range must be specified at time of order
Accuracy	±2°C dew point
Operating temperature	Electronics: -5 to +50°C Sensor: -40 to +60°C
Storage temperature	-40 to +75°C
Output	4-20 or 0-20 mA signal, maximum load resistance 500 Ω RS232
Alarm	2 volt free contacts, 3A @ 240 VAC
User interface	Front panel configuration of alarm points
Power supply	85 to 264 VAC, 50/60 Hz
Ingress protection	
Monitor	IP65 (NEMA 12) front panel only
Sensor	IP66 (NEMA 4)
Sensor cable	0.8 m supplied as standard (max 800 m)
Mains cable	2 m cable supplied
Dimensions	Monitor: 1/8 DIN case, 96 x 48 x 85 mm including clearance (W x H x D) Sensor: 132 x 27A/F mm (length x diameter across hex flats)
Sensor	For full specification please see the Easidew Transmitter datasheet

Easidew Online Part Numbers

Standard Transmitter: EA2-0L

Non Standard Range: EA2-0L-w/xyz

w = Zero value

x = Full scale values,

y = Units (C = °C dp, F = °F dp & P = ppm_v)

z = Pressure for ppm_v conversion in Barg

Blank = 0 Barg

OPTIONS:

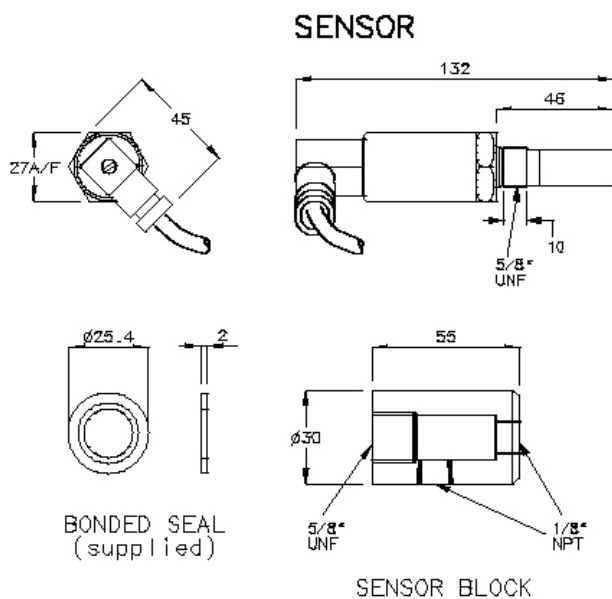
Easidew Sampler - A self-contained sampling system, with filtration and flow control, for measurement of pressure or atmospheric dewpoint - Part number EA2-SAM

Sample Block - Stainless Steel sample block to contain Easidew Transmitter, with 1/8" NPT ports - Part number CSB

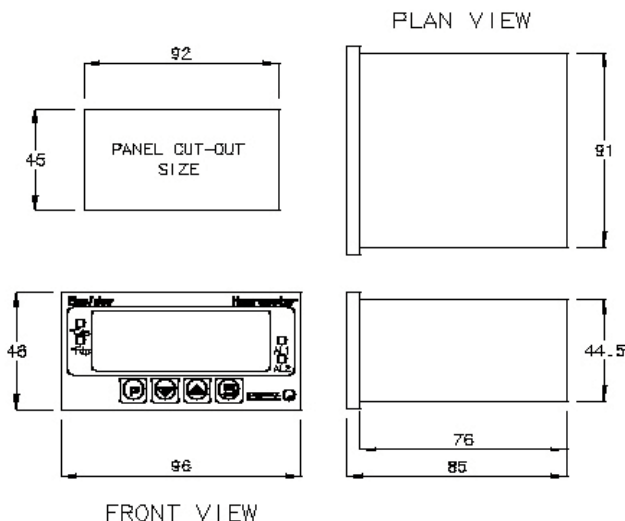
Replacement HDPE Guard - Pack of 10 HDPE Guards - Part number - EA2-HDPE-10

Sintered Guard - Stainless Steel sintered guard, for protection of ceramic sensor (in place of standard HDPE Guard) - Part number 9980237

Dimensions



MONITOR



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Please note: The accuracy stated represents the typical variation between the instruments under test and a calibrated and corrected reference.

Please contact us for latest version: Easidew Online: Ref: EA2-0L-0707

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