



# Easidew

## Portable



A compact and easy to use portable hygrometer with fast response, integrated sampling system and traceability to National Standards



*Easidew  
Portable*

### Features

- Wide measurement range
- Fast and easy to use
- Clear red LED display
- Battery charge level indicator
- IP68 (NEMA 6P) rated
- Traceable calibration

### Affordable, Simple Dew-point Measurement

The Easidew Portable Hygrometer has been designed to make in-field checks of the dew point in air and gases as simple and quick as possible. This totally self-contained instrument, weighing only 4 kg, is delivered ready to use. Simply connect your sample gas to the Quick Connect fittings, turn on the instrument and it will instantly trend the dew point of the applied sample.

### Intelligent and Interchangeable Sensor Technology

The key to Easidew'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 sensor transmitter module. All calibration data is stored within the memory and so sensor exchange for calibration or service can be effected in seconds, even by untrained personnel. Furthermore, the Easidew Transmitter module can be used as a stand-alone dew-point transmitter or coupled with the Easidew On-line Hygrometer display unit to form a fixed location, mains powered hygrometer. Total flexibility, interchangeability and ease of implementation.

### Fully Integrated Sampling System

Easidew is unique amongst portable hygrometers. We have built into the design a complete sampling system that allows you to easily measure the dew point of any air or gas line, clean or dirty, at up to 2 MPa pressure. A fixed orifice port arrangement allows you to select, simply by reversing inlet and outlet ports, whether to measure at atmospheric or line pressure. An integrated filter housing, accepting standard fibre filter cartridges, gives 99.5% protection against particles to 0.3 micron. All this comes as standard. Optionally, Swagelok® couplings can be specified to allow operation of the unit at up to 30 MPa, equivalent to 300 barg.

### Measurement in Your Control

Easidew Portable features an extremely clear and bright 13 mm red LED display so that you can easily determine the dew point of your process even in the most dimly lit plant. We also provide you with a 4-20 mA analogue output for connection to a chart recorder, data-logger or computer system, so you can analyse trends in dew point over time.



## Practical Design

A field instrument must be easy to carry as well as easy to use. As its name suggests, Easidew Portable has been designed to be perfectly transportable. It is small with an ergonomic carry handle, weighs only 4 kg and its robust bright yellow colour means it will never be lost! On the functional side, Easidew Portable is protected to IP68, (NEMA 6P) when the lid is closed and, even when in operation, offers IP54 (NEMA 4) protection.

## Long Battery Life

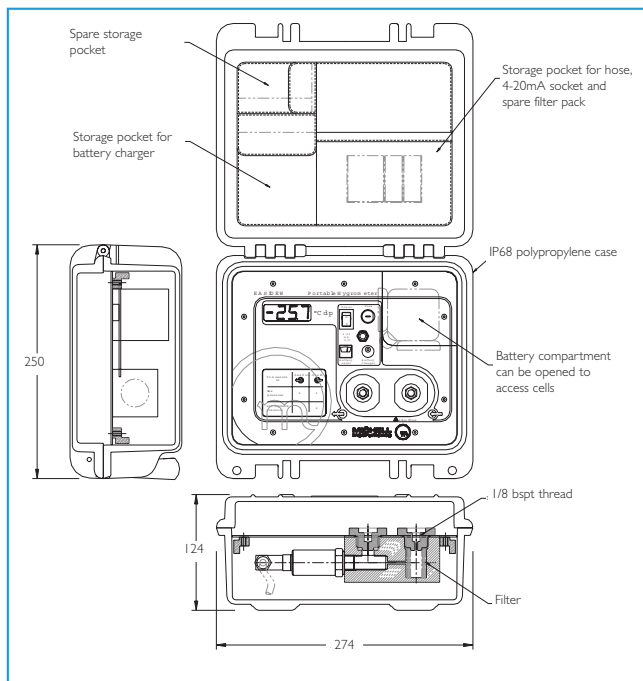
By definition, a portable hygrometer needs to operate from batteries. Easidew Portable uses re-chargeable C type cells and is delivered complete with a universal battery charger that fits neatly into the instrument lid. It will operate for up to sixteen hours on a full charge. The batteries are located behind an easy-to-remove panel at the front of the instrument and can be replaced in an emergency by standard C cells. A battery charge indicator on the instrument front panel keeps you constantly informed of battery status.

From the Impedance Range

## Technical Specifications

|                            |  |
|----------------------------|--|
| <i>Measurement Range</i>   | -100 to +20 °C dp  |
| <i>Accuracy</i>            | ±2 °C dew point  |
| <i>Operating temp</i>      | -20 to +50 °C  |
| <i>Storage temperature</i> | -40 to +75 °C  |
| <i>Operating Pressure</i>  | 0.1 to 2 MPa standard; up to 30 MPa (300 barg) with optional Swagelok® couplings   |
| <i>Display</i>             | 3.5 digit LED display flush mounted  |
| <i>Outputs</i>             | 4-20 mA signal via ¼" jackplug, max load resistance 400 W  |
| <i>Case</i>                | Yellow polypropylene, Class 5 re-cyclable.<br>Charger; sample tubing and output jack held in case lid  |
| <i>Ingress protection</i>  | IP68 (NEMA 6P) rated with case closed<br>IP54 (NEMA 4) rated with case open  |
| <i>Power</i>               | Four C type re-chargeable cells. Battery status indicator  |
| <i>Charger</i>             | Universal input type with IEC socket   |
| <i>Run time</i>            | 12-16 hours  |
| <i>Charge time</i>         | 16 hours (max)   |
| <i>Sample connections</i>  | Legris type push fit pneumatic fittings for gas in / gas out   |
| <i>Sample block</i>        | Stainless steel, fully self-contained sample system with provision for filtration via standard drop-in cartridge and fixed orifice ports for flow control/pressure/atmospheric measurement |
| <i>Sample tubing</i>       | 2 m of 6 mm OD ptfe supplied   |
| <i>Filter cartridge</i>    | 99.5 % retention @ 0.3 micron supplied with cartridge fitted. Spare cartridges are available (part no: 9996031)  |

## Dimensions



Dimensions mm