

# Intrinsically Safe Field Display

for use with Easidew I.S. and Easidew PRO I.S.



## Technical Specifications

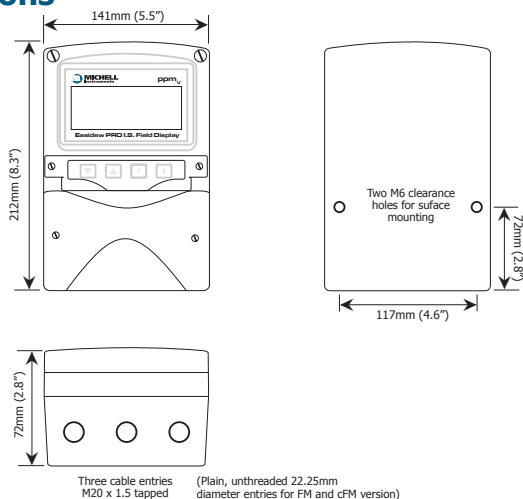
| Input                               |   |
|-------------------------------------|---|
| <b>Current</b>                      | 4 to 20mA   |
| <b>Voltage drop</b>                 | Less than 1.2V at 20°C (68°F)<br>Less than 1.3V at -40°C (-40°F)<br>Less than 5V with optional loop powered backlight   |
| Display                             |   |
| <b>Type</b>                         | Liquid crystal, non-multiplexed 4 digits 34mm high  |
| <b>Resolution</b>                   | Dewpoint: 0.1 °C/°F<br>ppm <sub>v</sub> /ppm <sub>w</sub> : 1 for 1000 – 9999<br>0.1 for 100.0 – 999.9<br>0.01 for 10.00 – 99.99<br>0.001 for 0.000 – 9.999   |
| <b>Span</b>                         | Adjustable between 0 & ±9999 with a 20mA input  |
| <b>Zero</b>                         | Adjustable between 0 & ±9999 with 4mA input   |
| <b>Over-range/Under-range</b>       | 9999 or -9999 with all decimal points flashing  |
| Certification (Display Only)        |   |
| <b>ATEX</b>                         | Group II Category 1GD<br>Ex ia IIC T5 Ga<br>Ta = -40 to +70°C   |
| <b>IECEX</b>                        | Ex ia IIC T5 Ga<br>Tamb = -40 to 70°C   |
| <b>FM</b>                           | CL I, II, III: Div 1: GP A, B, C, D, E, F & G<br>T4 @ 70°C (158°F)  |
| Environmental                       |   |
| <b>Operating temperature</b>        | -40 to +70°C (-20 to +60°C for FM version)<br>(-40 to +158°F (-4 to 140°F for FM version))  |
| <b>Storage temp</b>                 | -40 to +85°C (-40 to +185°F)  |
| <b>Humidity</b>                     | to 95% at 40°C (104°F) non-condensing   |
| <b>Enclosure</b>                    | IP66  |
| Mechanical                          |   |
| <b>Terminals</b>                    | Screw clamp for 0.5 to 1.5mm <sup>2</sup> conductors  |
| <b>Weight</b>                       | 1.7kg (3.75 lbs)  |
| Accessories                         |   |
| <b>Backlight</b>                    | Green, loop powered. Voltage drop of indicator plus backlight less than 5V  |
| <b>Alarms</b>                       | Two alarm outputs each of which may be independently configured. Isolated solid state switch complying with requirements for simple apparatus.<br>R <sub>on</sub> 5Ω + 0.7V max<br>R <sub>off</sub> 1MΩ min |
| <b>External keypad</b>              | Membrane keypad enables indicator to be configured without removing cover.  |
| <b>Stainless steel legend plate</b> | Etched legend plate with tag number or application attached to front of the instrument  |
| <b>Pipe mount kit</b>               | Stainless steel bracket secured by two stainless steel worm drive hose clips for 60 to 80mm outside diameter vertical or horizontal pipe  |

The Intrinsically Safe Field Display is a 4-digit loop-powered local monitor for the Easidew PRO I.S. and Easidew I.S. transmitters. It is certified with ATEX, IECEX, UKCA, and FM and housed in an IP66 enclosure with a terminal compartment for wiring. The measurement unit can be labelled as ppm<sub>v</sub>, ppm<sub>w</sub>, °C dp or °F dp.

## Highlights

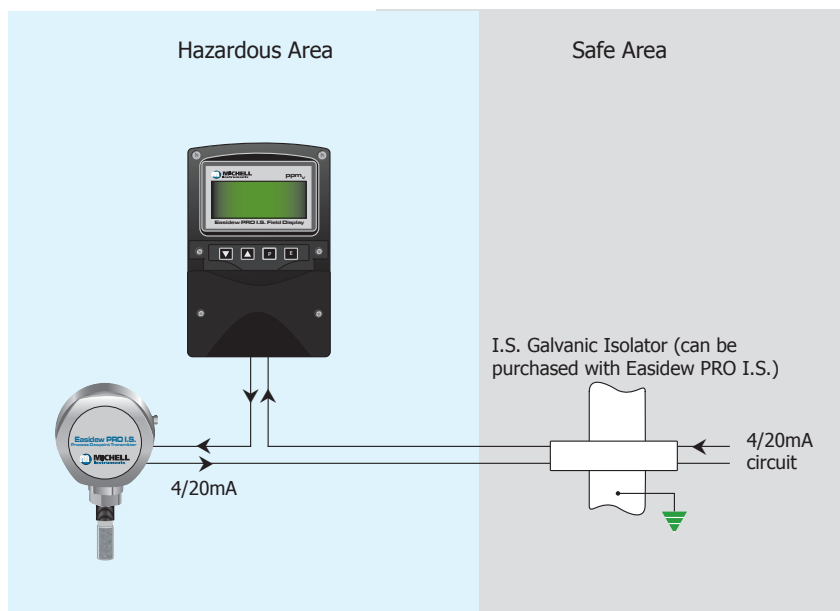
- Loop powered 4-20mA indicator. Intrinsically safe certified with ATEX, IECEX, UKCA, and FM
- Operating temperature between -40 and +70°C (-40 and +158°F)
- Bold 34mm high 4 digit display with optional backlight
- Robust GRP enclosure providing IP66 protection. Can be mounted by itself or inside a sampling system enclosure
- Built-in terminal compartment for easy wiring
- Two optional galvanically isolated solid state alarm outputs

## Dimensions



# Intrinsically Safe Field Display

## Electrical Connections



## Accessories

|   |                |
|---|----------------|
| Pipe mount kit  | <b>EPD-PMK</b> |
| Connection kit (including 2 cable glands and 0.5 meter cable BS5308, crimped) | <b>EPD-CAB</b> |

## Ordering Codes

To construct the order code, select the relevant feature from the tables below, starting with the base model, which is {Feature A} and then add on option to create a string: {Feature A}+{Feature B}+{Feature C}+{Feature D}+{Feature E}+{Feature F}+{Feature G}

**Order example:** EPD + BX(0/100P) + C1 + D2 + E1 + F1 + G1  
 Easidew PRO I.S. Field Display, 0 to 100 ppm<sub>v</sub>, no backlight, tag plate, no alarms and no keypad, ATEX+IECEx certification.

|   | EPD | BX(0/100P) | C1 | D2 | E1 | F1 | G1 |
|---|-----|------------|----|----|----|----|----|
| <b>Base Model {Feature A}</b>   |     |            |    |    |    |    |    |
| I.S. Field Display  | EPD |            |    |    |    |    |    |
| <b>Range {Feature B}</b>  |     |            |    |    |    |    |    |
| -100 to +20°C (-148 to +68°F) dew-point input range   | B1  |            |    |    |    |    |    |
| v = zero value (must be the same as the associated transmitter)   | BX  |            |    |    |    |    |    |
| w = full scale value (must be the same as the associated transmitter)                                   |     |            |    |    |    |    |    |
| x = unit – must be the same as the associated transmitter – (C = °Cdp, F = °Fdp, P = ppm <sub>v</sub> ) |     |            |    |    |    |    |    |
| <b>Backlight {Feature C}</b>  |     |            |    |    |    |    |    |
| No backlight  | C1  |            |    |    |    |    |    |
| Backlight (no additional wiring required)   | C2  |            |    |    |    |    |    |
| <b>Certification {Feature G}</b>  |     |            |    |    |    |    |    |
| ATEX Gas, IECEx   |     |            |    |    |    |    | G1 |
| ATEX Gas and dust, IECEx  |     |            |    |    |    |    | G2 |
| ATEX Gas, IECEx, FM, cFM (cable entries change from M20 to plain, unthreaded 22.25mm diameter entries)  |     |            |    |    |    |    | G3 |
| <b>Keypad {Feature F}</b>   |     |            |    |    |    |    |    |
| No keypad   |     |            |    |    |    |    | F1 |
| External keypad   |     |            |    |    |    |    | F2 |
| <b>Alarms {Feature E}</b>   |     |            |    |    |    |    |    |
| No alarms   |     |            |    |    |    |    | E1 |
| Alarm switch (dual, galvanically isolated solid state)  |     |            |    |    |    |    | E2 |
| <b>Tag Plate {Feature D}</b>  |     |            |    |    |    |    |    |
| No tag plate  |     |            |    |    |    |    | D1 |
| Stainless steel tag plate (maximum 12 characters)   |     |            |    |    |    |    | D2 |