

# Intrinsically Safe Field Display

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

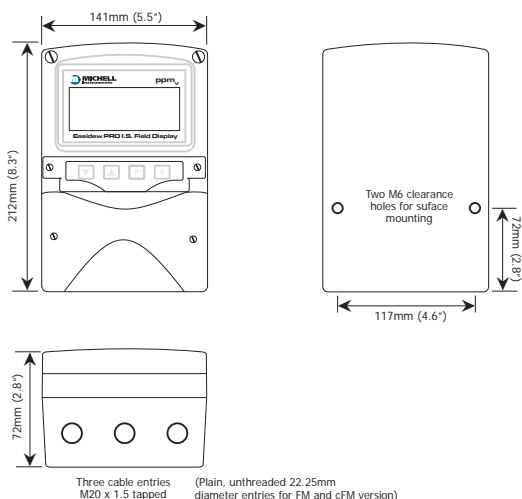


The Intrinsically Safe Field Display is a 4-digit loop-powered local monitor for the Easidew PRO I.S. and Easidew I.S. transmitters. It is certified with ATEX, IECEx, and FM and housed in an IP66 enclosure with a terminal compartment for wiring. The measurement unit can be labelled as ppm<sub>v</sub>,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

## Highlights

- Loop powered 4-20mA indicator. Intrinsically safe certified with ATEX, IECEx, and FM
- Operating temperature between -40 and +70°C
- 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



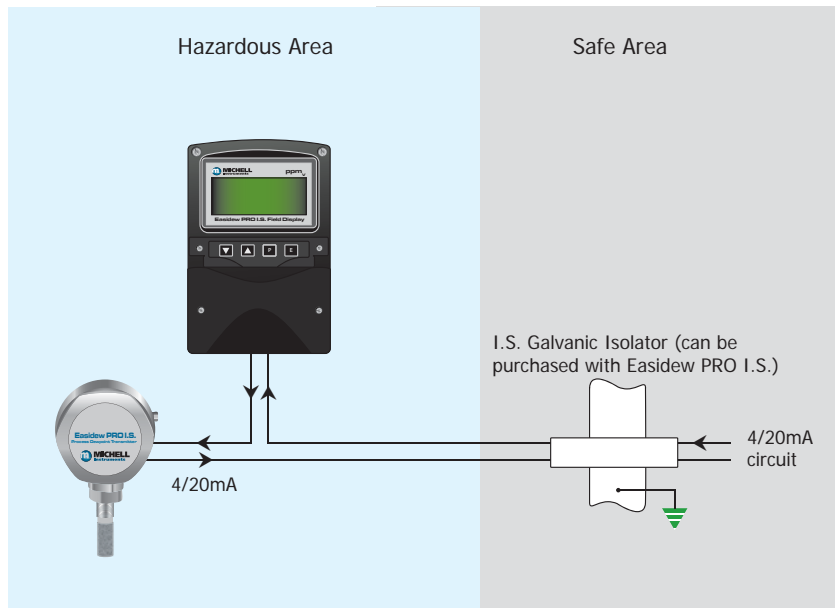
## Technical Specifications

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

Issue No: I.S. Field Display 97320 V1.1 UK 0412

# Intrinsically Safe Field Display

## Electrical Connections



## Accessories

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

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

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