



# Digital Panel Meter From IMA

## Breeze Display Series 40



### /// Key Features

- weatherproof IP65 wall mounting
- optional remote control
- a variety of inputs
- power supply for transmitters



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## /// Cost Effective Reliability

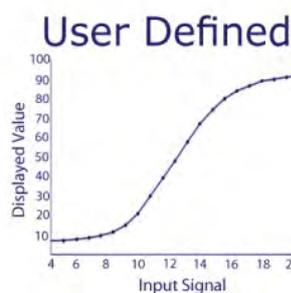
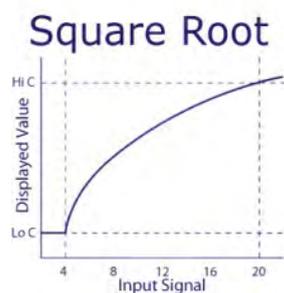
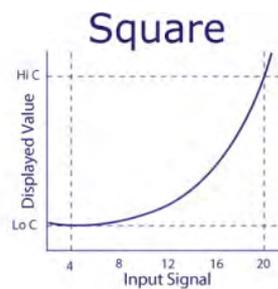
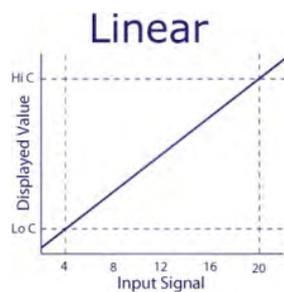
With easily programmable measuring ranges the **Breeze Series 40** digital panel meter offers a cost effective, high reliability, solution for loop powered transmitters and other measurement needs. An IP65 enclosure allows the unit to be mounted in harsh environmental conditions. Measurement ranges and alarm set points are user programmable. User adjustable hysteresis avoids alarm chatter, and variable delays for relay activation, de-activation and peak hold make the **Breeze 40** a flexible device. An optional remote control enables the device to be adjusted without opening the enclosure. The integral power supply offers 24 VDC for loop powered systems.



## /// More Features

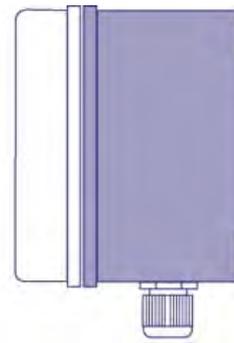
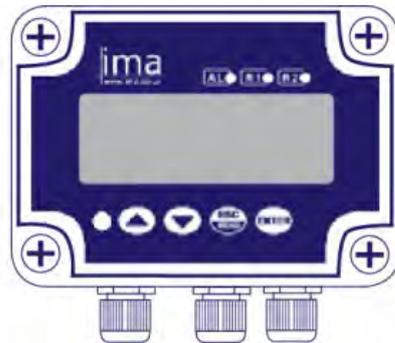
- large display 20 mm red or green LED
- RS-485/ Modbus RTU communications
- ATEX Zone 1 option
- programmable relay hysteresis
- linear and non-linear inputs (up to 21 point linearisation)

## /// A Variety of Input Signal Conversions



## /// Dimensions

Case dimensions  
110 W x 80 H x 67 D mm  
with glands  
110 W x 105 H x 67 D mm

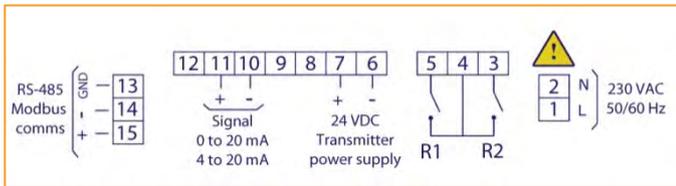


Fixing centres  
90 W x 60 H mm



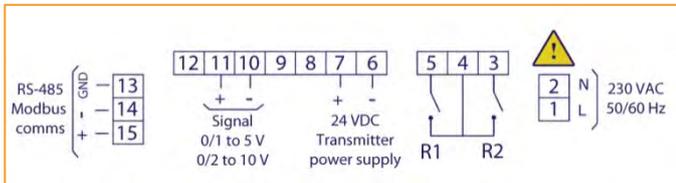
## /// Specifications

ELECTRICAL	
Power supply	230 VAC $\pm$ 10 % 50/60 Hz max. 1.5 VA Or 24 VDC or 110 VAC
Display	LED, Red or Green, 4 x 20 mm
Inputs	0 to 20 mA, 4 to 20 mA or 0 to 5 V, 0 to 10 V, 1 to 5 V, 2 to 10 V or PT100 or Modbus input
Measuring range	-999 to 9999 plus decimal point
Accuracy	$\pm$ 0.25 % $\pm$ one digit in the entire range
Outputs (when fitted)	1 or 2 threshold relays 1 A at 250 VAC
Transmitter power supply	24 VDC $\pm$ 5 V, non-stabilized, not insulated from measuring inputs; maximum 25 mA for 230 VAC, 100 mA for 24 VDC
Communications	RS-485, 8N1, 1200 bit/s to 115200 bit/s, Modbus RTU (not galvanically isolated)
MECHANICAL	
Operational temperature	0 °C to +50 °C
Storage temperature	-10 °C to +70 °C
Protection class	IP65
Case material	ABS and Fibreglass
Case dimensions	110 W x 80 H x 67 D mm
With glands	110 W x 105 H x 67 D mm
ATEX Certification	TBA
ATEX Exd box dimensions	TBA



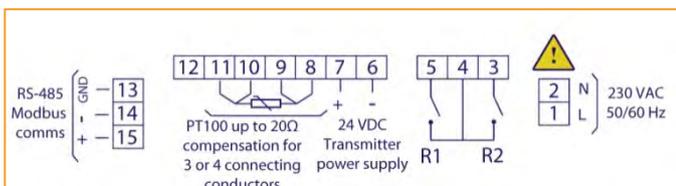
### Input option I

Current inputs of either 0 to 20 mA or 4 to 20 mA may be programmed for measurement ranges between -999 to 9999 plus a decimal point.



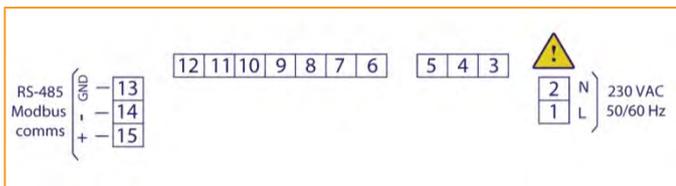
### Input option V

Voltage inputs of either 0 to 5 V, 1 to 5 V, 0 to 10 V or 2 to 10 V may be programmed for measurement ranges between -999 to 9999 plus a decimal point.



### Input option T

PT100 input with automatic recognition between 3 or 4 wire connectors. Resistance compensation of up to 20 Ohms of the connecting conductors. Measuring range of -50 °C to 550 °C with a 0.1 °C resolution.



### Input option M

Modbus input only. Intended for display of data sent via RS-485 where a quick view of critical data is required. For measurement ranges between -999 to 9999 plus a decimal point.

## ORDERING INFORMATION

Breeze 40 wall mounting meter comprising: 4 x 20 mm LED. Complete with 24 VDC power supply for transmitters. Modbus communications over RS-485. Measures 110 W x 105 H x 67 D mm.

<b>Breeze 40</b>	I	0 to 20 mA or 4 to 20 mA input
	V	0 to 5 V, 0 to 10 V, 1 to 5 V, or 2 to 10 V input
	T	PT100 input – display range -50 to 550 °C with 0.1 °C resolution. Transmitter supply not fitted
	M	RS-485 Modbus input only (output relays not available with this option)
	<b>Outputs</b>	
	0	No relays fitted
	1	1 off setpoint relay 1 A at 250 VAC (cosφ=1)
	2	2 off setpoint relays 1A at 250 VAC (cosφ=1)
	<b>IP Rating</b>	
	0	IP65 wall mounting enclosure
1	ATEX certified enclosure	
<b>Power Supply</b>		
0	230 VAC	
1	24 VDC	
2	110 VAC	
<b>Display</b>		
0	Red LED 4 x 20 mm	
1	Green LED 4 x 20 mm	
<b>Breeze 40</b>		Optional remote control available Part Number: Breeze RC-1



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