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## Terwin $\mu$ 800P DIN Rail Mount Isolated Melt Pressure Transducer Power Supply / Signal Conditioning Unit



### Advantages:

- ✓ "Auto" Zero & 80% calibration.
- ✓ DIN rail mount.
- ✓ 2 way isolation.
- ✓ 24V DC Supply.
- ✓ Alternative switch mode supply voltage (85-265V 50/60Hz)
- ✓ Extremely easy to use.
- ✓ Programmable output signals.

### Description:

The Terwin  $\mu$ 800P isolating melt pressure transducer signal conditioner has been designed to convert raw transducer mV outputs into a calibrated and conditioned isolated signal, i.e. 0-10V or 4-20mA etc. This signal can then be fed direct into any PLC or other remote monitoring device.

Designed to be used in conjunction with any standard melt pressure transducer with an output between 1.5mV/V to 4mV/V. This range covers most manufacturers melt pressure transducer output specifications.

Uniquely, the model  $\mu$ 800P incorporates one button "AUTO" zero and 80% negative shunt calibration.

A transducer zero offset of -3mV to +6mV can be accommodated by the "Auto Zero" circuit.

The  $\mu$ 800P output signal is selectable using internal D.I.L. switches and the front programming keypad.

Available outputs are: 0-1V, 1-5V, 0-5V, 0-10V, 0-20mA, 4-20mA, 0-1mA and 0-10mA.

The  $\mu$ 800P is available with either 24V DC or switch mode 85-265V 50/60HZ supply and employs 2 way isolation for added stability.

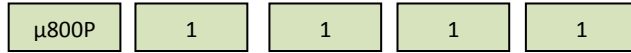
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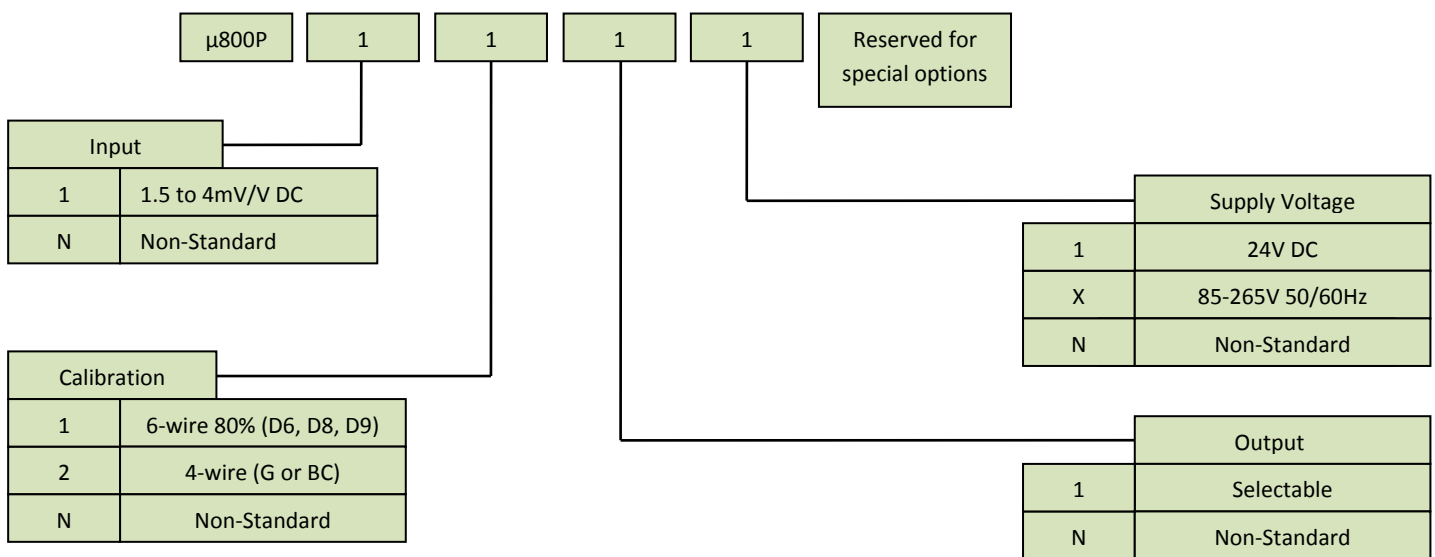
# Terwin $\mu$ 800P DIN Rail Mount Isolated Melt Pressure Transducer Power Supply / Signal Conditioning Unit

$\mu$ 800P Part Numbers:



Example:

Terwin model  $\mu$ 800P-1-1-1-1 DIN rail mount isolating melt pressure signal conditioner with push button Auto Zero & 80% calibration and 24VDC supply. Input: 1.5 to 4mV/V with 6 wire 80% negative shunt calibration. Selectable outputs: Current: 0 to 1mA, 10mA, 20mA, 4 to 20mA. Voltage: 0 to 1V, 5V, 10V and 1 to 5V. Case width: 17.5mm.



Specifications:

Power supply	24V DC or 85-265VAC (depending on the model ordered)			
Consumption	4W			
Ambient Temp.	0 to 50°C			
Relative humidity	Max. 80% without condensation			
Altitude	Max. 2000 m			
Installation cat.	II according to EN61010-1			
Pollution grade	I according to EN61010-1			
Box	ABS self-extinguishable			
Dimensions	DC Supply Version	17.5mm (w) x 99mm (h) x 115mm (d)	AC Supply Version	35mm (w) x 99mm (h) x 115mm (d)
Input	Pressure transducer 1.5 to 4mV/V			
Minimum output change assuming correct output calibration	0..1V			300 $\mu$ V
	0..5V			300 $\mu$ V
	1..5V			300 $\mu$ V
	0..10V			300 $\mu$ V
	0..1mA			300 nA
	0..10mA			300 nA
	0..20mA			300 nA
	4..20mA			300 nA
Analogue output	User-selectable: 0 to 1V, 0 to 5V, 1 to 5V, 0 to 10V, 0 to 1mA, 0 to 10mA, 0 to 20mA, 4 to 20mA			
Power supply for pressure transducer (Excitation)	9V DC ( max. 100mA )			
Weight	DC Supply Version	105 grams	AC Supply Version	185 grams
CE Certification	Safety, EMI Susceptibility, EMI Emission, Harmonics, Voltage fluctuations			

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