

Panel mount, Totaliser/Counters

PTX800A Current/Voltage Inputs PTX800D Digital Pulse Inputs



These units are available in two models: the PTX800A for analogue current/voltage rate signals; and the PTX800D with digital pulse outputs.

- Display total or rate in any engineering unit
- Bright 8 digit LED display
- Up to 2 alarm channels
- Optional analogue output
- Pulse output
- Reset pulse input
- Last count retention in case of power failure
- AC or DC powered
- Fully Isolated
- LED alarm status indication
- 1/8 DIN standard facia with IP65 rating
- Integral power supply for active input devices

You can set the display for total or rate indication, then simply hold down the 'rate/total' button to check the other value.



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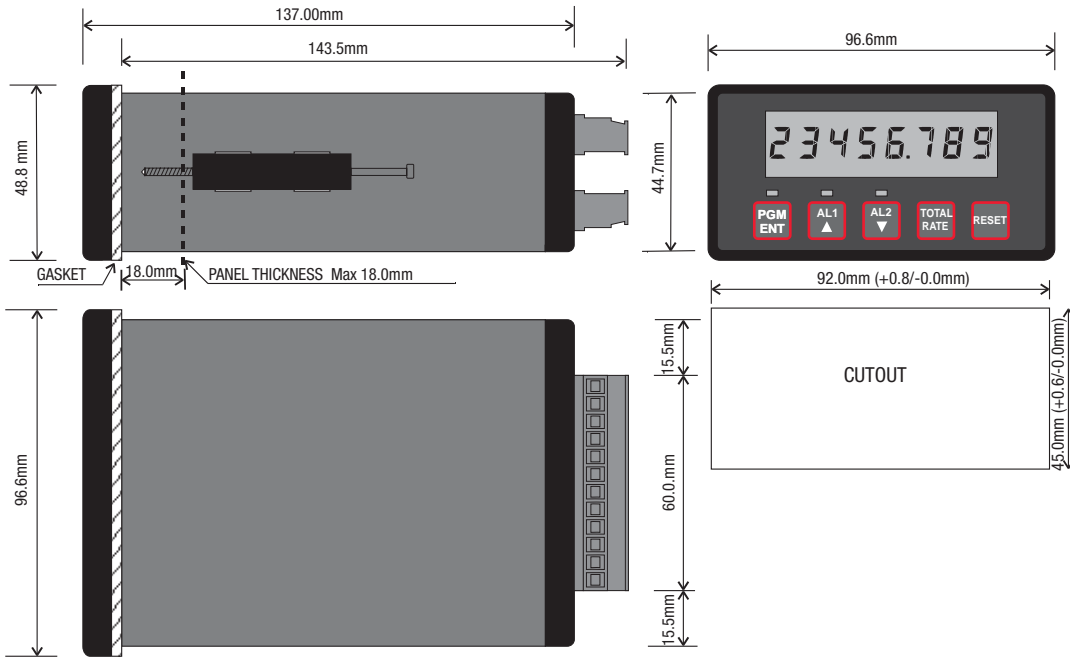
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Connections

Pin	Signal	
1	Neutral / -	Power supply
2	Live / +	
3	Signal +	Analogue output (optional)
4	Signal -	
5	0V	Pulse output
6	Pulse	
7		Inputs (see individual units)
8		
9		
10		
11		
12		
13	Normally Closed	Alarm one (optional)
14	Common	
15	Normally Open	
16	Normally Closed	Alarm two (optional)
17	Common	
18	Normally Open	

Technical Data

Display		Analogue output (optional)	
Type	Full 8 digit, red 7.2 mm LED	Type	Analogue current/voltage (jumper selectable)
Display brightness	Programmable (in 14 steps)	Range	Determined by calibration (in the range 0–22 mA or 0–11 V)
Scaling	to display in % or engineering units	Output resolution	1.6µA or 0.8mV per bit
Rate display	Rates are displayed as up to five digit numbers (from 0-50,000)	Current drive	Up to 900Ω load (at 20mA) Note: loop compliance is 18V
Rate timebase	Rates can be displayed per second, minute or hour (also per day for the PTX800A only)	Voltage drive	True voltage source (up to 20mA)
Total display	Totals are displayed as up to eight digit numbers (from 0-99,999,999)	Output ripple	Less than 20mV P/P
Decimal points	The decimal points can be selected separately for rate and total displays (up to three decimal places)	General	
Status indicators	Alarm channel 1, Alarm channel 2 and key status	Accuracy	Better than 0.05%
Power supply		Linearity	Better than 0.05%
Type	AC or DC powered	Repeatability	±0.02% of span
AC (selectable)	110V/240V (47-63Hz)	Temperature drift	Less than 0.02% span/°C
DC	24Vdc Other voltages on request	Long term drift	0.1% per 10,000 hours
Permissible range	+15% to -10% (AC supply) ±10% (DC supply)	Insulation Co-ordination	
Power usage	AC 6VA or 6W at 24Vdc	Ports	Input / Output / Relay One, Relay Two / Power Supply
Reset pulse input		Rated Insulation Voltage	300Veff
Type	Contact closure	Overvoltage Category	III
Effect	Resets total and clears any total alarms	Impulse Withstand	4kV (1.2 / 50)
Pulse output		Isolation	2 kV (between ports)
Type	NPN O/C transistor type (isolated)	Environmental Conditions	
Scaling	One pulse per integer change in total	Operating temperature	0 to 60 °C
Pulse width	32 millisecond	Storage temperature	-25 to +70 °C
Off time	32 millisecond minimum	Pollution Degree	2
Max pulse rate	15 pulses per second	Relative humidity	10–90% (non-condensing)
Alarm outputs (optional)		Housing	
Type	SPDT relay contacts	Type	Double Insulated, Panel mount
Rating	3A at 240Vac (resistive) 3A 24Vdc/110Vac (resistive)	IP rating	IP65 (from front of panel)
Isolation	1.5kV between channels	Front bezel	1/8 DIN format
		Approvals	Standard
		DC Powered units only	CAN/CSA C22.2 No. 1010.1:92 UL61010-1: 2004
			EN50178:1998 BS EN 61326:1998 + A2



PTX800D Digital Pulse Inputs

Scaleable pulse counter and rate indicator for digital pulse signals.

- Flexible inputs suit a wide range of digital input sensors and signals
- Power for active input devices



PTX800A Current/Voltage Inputs

Programmable Integrating Totaliser and rate indicator for current/voltage signals.

- Inbuilt square law function
- Power for active input devices
- Programmable low cut-out rate

Technical Data

Inputs	
Type	Digital pulse, including: NAMUR sensors; 3-wire PNP/NPN sensors; PNP/NPN open collector outputs; TTL logic; Solid State Switches; Low and high voltage pulses; and Volt-free contacts
Input range	0 to 10kHz
Sensor power output	Nominally 12Vdc (to 25mA) Other voltages on request (/FPS option)
Input voltage range	Programmable from 50mV to 250V peak
Resolution	
Input impedance	
Rate to Total scaling	Programmable (up to 10,000 pulses per unit change in total)
Analogue output (optional)	
Type	Proportional to rate or total
Reset input	
Timing	Close for 100mS minimum
Pulse output	
Max pulse rate	16 pulses per second
Options	
/AO	With analogue output fitted (specify format), e.g., PTX800D/.../AO/4-20mA
/RO	With dual alarms
/FPS	Custom input sensor supply voltage. State voltage, e.g., PTX800D/.../FPS/24Vdc

Input Connections

Terminal	Signal	
7	Reset count	Short to 12 to reset
8	Security	Short to 12 for setup
9	Pull Up/Down	Inputs
10	Input - / 0V	
11	Input +	
12	+12Vdc (out)	

Terminal	Signal	
7	Reset count	Short to 8 to reset
8	Common	
9	Security	Short to 8 for setup
10	Input - / 0V	Inputs
11	Input +	
12	+24Vdc (out)	

Ordering Information

Type (Model 1/2 - See key below)	Cat. No.
PTX800D 24Vdc	794001133
PTX800D 24Vdc/ROAO	7940012323

Note: For other ranges please specify PTX800D 1/2 where:
1 = Power Supply Voltage, 2 = Options

Type (Model 1/2 - See key below)	Cat. No.
PTX800A 4-20mA/24Vdc	7940010243
PTX800A 4-20mA/24Vdc/ROAO	7940014374

Note: For other ranges please specify PTX800A 1/2/3 where:
1 = Input format, 2 = Power supply voltage, 3 = Options