

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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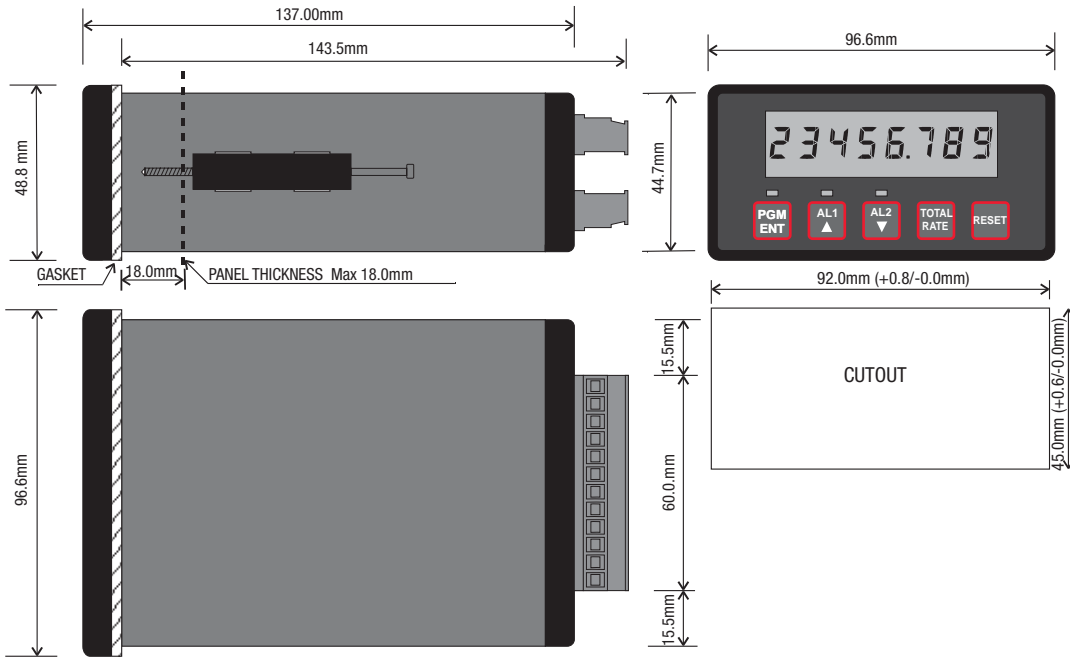
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Connections

| 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