

## ACCEPTS PULSE DURATION SIGNALS

Standard Ranges

### FAST RESPONSE TIME

1 Period Response

The Model PDR, Pulse Duration Receiver, converts time duration input pulses to 4-20mA or any other standard process current or voltage output.

Accepting pulse-duration or impulse-cycle signals in the standard ranges, the PDR may replace electromechanical devices used in equipment with trade names like Metameter, Teletax, or Durapulse. The PDR may also be applied as a receiving unit in a telemetering or supervisory control system. As a companion receiver to the Model PDT, Pulse Duration Transmitter, the PDR may be used when standard process signals are transmitted long distances over communication lines.

Digital conversion techniques offer high accuracy and resolution of  $\pm 1$  part in 1,000. Digital design also enables the PDR to respond quickly to step changes that sometimes occur in certain types of measurements. And, with the use of digital storage, output delay between pulses cannot occur.

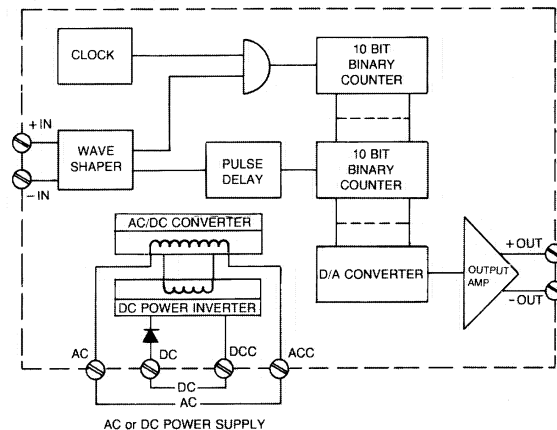
## DIGITAL ACCURACY

$\pm 1$  Part In 1000

### STANDARD PROCESS OUTPUTS

1-5mA, 4-20mA, 10-50mA Or Voltage

Any standard process current output may be selected in the field by specifying SC option. With input from a contact closure, the PDR supplies voltage to produce the required input pulse level.



## PDR - Pulse Duration Receiver

**INPUT:** 5-32 volt pulse @ 1mA max., or isolated contact closure (- CC Option)

**Input Ranges:**

- 8-1.8 seconds duration
- 1-5 seconds duration
- 3-12 seconds duration
- 0-13.33 seconds duration (Bristol)

**FRONT PANEL ADJUSTMENT:**

Adjustable with 22-turn potentiometer

**Span:** With full scale input, adjusts output to 100%  $\pm$  20% of selected output span

**Zero:** With minimum input, adjusts output to 0%  $\pm$  10% of selected output span

**OUTPUT:** Operational amplifier feedback current source; output limited to 150% of maximum output range value.

**Current:**

- 1-5 mA into 0-4800 ohm load
- 4-20 mA into 0-1200 ohm load
- 10-50 mA into 0-480 ohm load

**Voltage:** 1-5 Vdc standard into 20K ohms minimum

**Ripple:** 10mV P/P maximum span and maximum load resistance

**Load Effect:**  $\pm$  0.01% of span from 0 to maximum load resistance (current output)

**PERFORMANCE:**

**Calibration Capability:**  $\pm$  0.1% of span

**Ambient Temperature:**

**Range:** 0°F to + 165°F (-18°C to 74°C)

**Effect:**  $\pm$  0.01% / °F over above range

**Isolation:**

Voltage output units have input negative side common to output negative side. Current output models have output negative side elevated above input negative side. Power input isolation is maintained on both AC and DC powered units.

**POWER INPUT:**

- 24 Vdc, 45 Vdc,  $\pm$  10%
- 117 Vac, 220 Vac, 240 Vac, 50/60 Hz,  $\pm$  10%
- 5 watts nominal

**OPTIONS:**

- AT** Input attenuation for high signal voltage input specify voltage
- RF** RFI filtered terminal assembly, Set of 2 per transmitter
- SC** Selectable output range current output units only

For other options, see Housings, Options, Accessories brochure.

**HOUSINGS:**

- STD** Standard Housing
- AB** Angle bracket mounting
- CP** Conduit plate for use with standard units
- EX** Explosion-proof enclosure, Single Unit, Div. 1
- GP** General purpose enclosure, Single Unit, NEMA 1

- OT** Oil-tight enclosure, Single Unit, NEMA 12
- PC** Plug-in card
- PM** Panel mount enclosure
- WT** Water-tight enclosure, Single Unit, NEMA 14

**CERTIFICATION:** CSA

**WEIGHT:** Approximately 2 lbs. (908 grams)

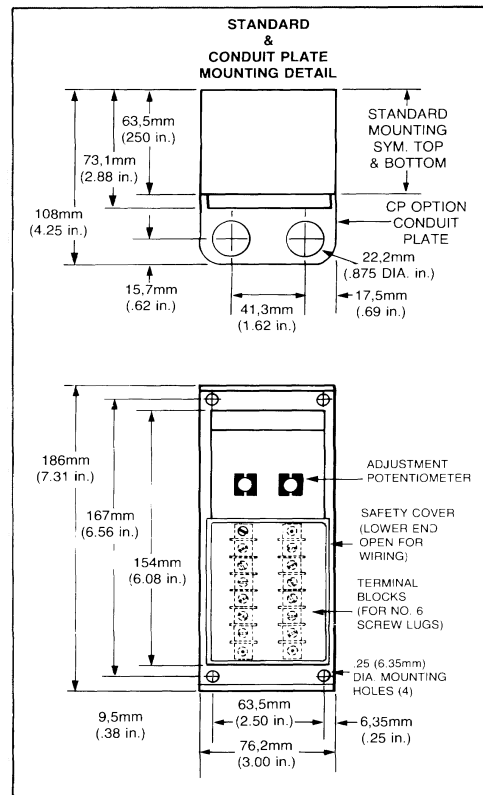
**ORDERING INFORMATION:**

Specify the following:

1. Input, range as listed
2. Output, span of voltage or current
3. Power input
4. Options
5. Housing

**EXAMPLE MODEL NUMBER:**

PDR/1-5S/4-20MA/45DC/-RF [STD]



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