The Series BAT Blind Analog Transmitter is a non-indicating, 4 to 20 mA transmitter for use with the Series EFS2, IEFS, PDWS, TBS and FLMG. The BAT is easy to set up and can be either wall or meter mounted. It takes a pulse frequency output from the compatible flow meters and converts it into a continuous 4 to 20 mA analog output signal. The frequency for the flowmeter output signal can be adjusted using four rotary switches on the back of the transmitter and a microcontroller automatically scales all other values accordingly. The microcontroller is also able to average inputs for more stable reading outputs. The rate for averaging is adjustable and ranges from 2 to 16 seconds. Power for the BAT is supplied by a current loop, making only 2 wires necessary. This unit features high environmental protection with semi-flexible urethane potted electrical components.

**APPLICATIONS**
- Telemetry
- Data Logging
- Chart Recording
- Distributed Control Systems

**SPECIFICATIONS**
- **Input:** Open-collector solid state sensor. Averaging: 2, 4, 8, 16 s (DIP switch selectable); Pulse Frequency: Min. 10 Hz @ 20 mA; Max. 999.9 Hz (rotary DIP switch selectable).
- **Temperature Limits:** 32 to 130°F (0 to 55°C).
- **Output:** 4 to 20 mA.
- **Power Requirements:** 24 to 36 VDC @ 4 to 20 mA when loop powered.
- **Response Time:** 2 to 60 s; 90% FS (depends on input averaging).
- **Loop Resistance:** 0 to 1300 Ω max. (see service manual).
- **Enclosure Material:** Die-cast powder-coated aluminum.
- **Enclosure Rating:** NEMA 4X (IP66).
- **Electrical Connections:** Terminal block.
- **Mounting:** See model chart.
- **Weight:** 3 lb (1361 g).

The Series PWD Pulse Divider is designed for pacing electronic metering pumps. The enclosed rotary switch setting mechanism can be manually set to any number from 0 to 9999 pulses. Once the divider has received the set number of pulses from the meter, it outputs one pulse to stroke the pump. The PWD is also useful in boiler and cooling tower feed and bleed operations, and for lowering frequency output of high frequency meters. The PWD is available in two different housings, one is an enclosure that can be mounted near the pump, and the other is a watertight housing for mounting on the meter.

**APPLICATIONS**
- Electronic metering pumps
- Boiling/cooling tower feed and bleed
- Lower frequency output or high frequency meters

**SPECIFICATIONS**
- **Input:** Pulse wave 350 Hz (pulses/s) max.
- **Temperature Limits:** 0 to 130°F (-18 to 55°C).
- **Output:** Solid state relay 0 to 250 VAC/DC @ 170 mA max., 0.1 s pulse width, 8 Hz max. (rotary DIP switch selectable).
- **Power Requirements:** 7 to 30 VDC @ 4 mA, 20 mA max.
- **Enclosure Rating:** NEMA 4X (IP66).
- **Electrical Connection:**
  - **Input:** PWD-W: Dwyer connector; PWD-M: Terminal;
  - **Output:** PWD-W: Pump connector (on 24˝ (0.61 m) lead); PWD-M: 18˝ (5.5 m) lead.
- **Mounting:** See model chart.
- **Weight:** 4.4 lb (2000 g).