



## The Pivotrol Pump<sup>®</sup> patent pending Digital Cycle Counter

### Description

The monitoring of condensate return pump operation is an important activity for plant operations and maintenance personnel. The use of pressure powered pumps equipped with a digital cycle counter provides the ability to monitor pump operation, schedule preventative maintenance and estimate the amount of condensate recovered. Counter may operate in both open and closed condensate systems.

### Specifications

|           |                                      |
|-----------|--------------------------------------|
| Enclosure | NEMA 4X, IP65 (watertight)           |
| Counter   | 8 Digit LCD display — NEMA 4 X, IP65 |
| Options   | BSP Threaded Version                 |

### Construction Materials

| No. | Part        | Material                                |
|-----|-------------|---|
| 1   | Enclosure   | Aluminum                                |
| 2   | Seal        |   |
| 3   | Housing     | Stainless Steel                         |
| 4   | Sealing Nut | Stainless Steel and Teflon <sup>®</sup> |
| 5   | Seal        |   |
| 6   | Probe       | Stainless Steel                         |
| 7   | Plug        | Stainless Steel                         |
| 8   | Plug        | Stainless Steel                         |

### Limiting Operating Conditions

#### External Operating Temperature Range

Counter: 32 to 122°F      0 to 50°C

#### Maximum Sensor Pressure

PMO: 300 psig / 21 barg

#### Maximum Operating Temperature

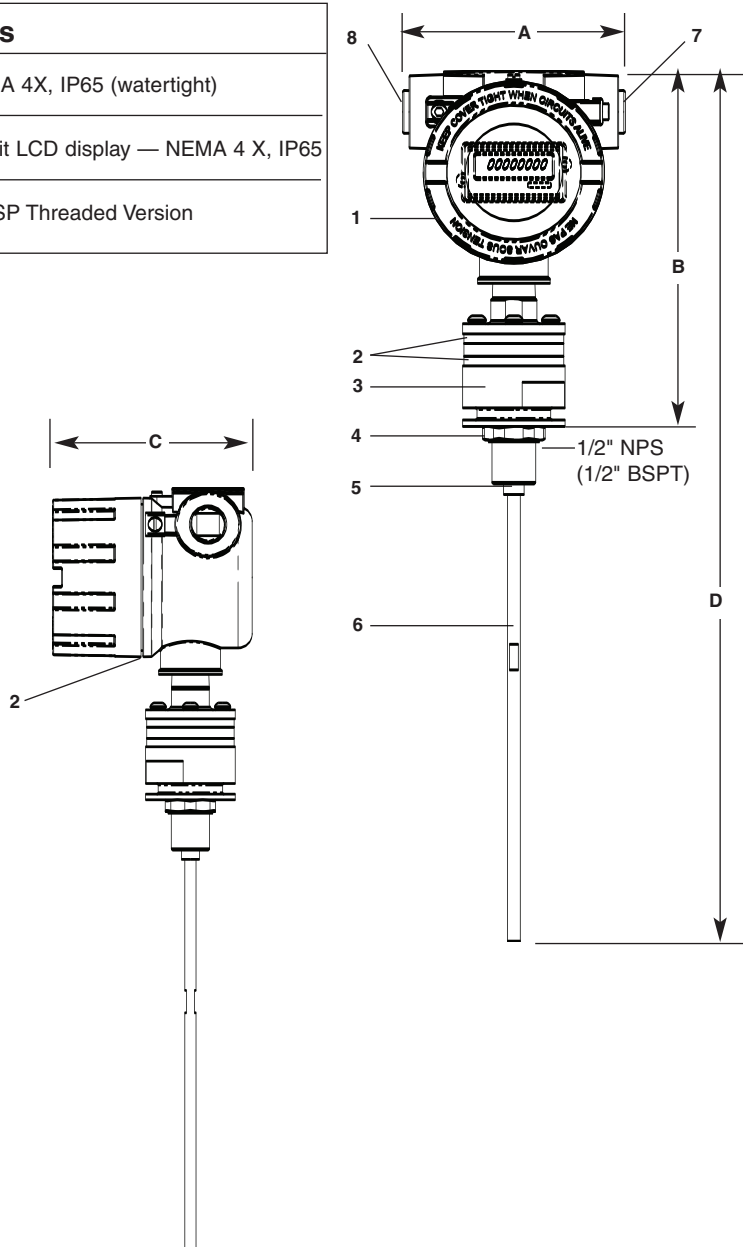
TMO: 500°F / 310°C

### Pump Capacities

| Model  | Approximate Gallons/Cycle |
|--------|---------------------------|
| PTC    | 7.1 / 26.9L               |
| PTF    | 8.4 / 31.8L               |
| PTF-HP | 16 / 60.6L                |
| PTF4   | 26.9 / 102L               |

### Dimensions (nominal) in inches and millimeters

| Model   | A   | B   | C   | D    | Weight |
|---------|-----|-----|-----|------|--------|
| PTC/PTF | 4.3 | 7.0 | 4.4 | 17.0 | 5 lb   |
|         | 109 | 178 | 112 | 432  | 2.3 kg |
| PTF-HP/ | 4.3 | 7.0 | 4.4 | 22.3 | 5.1 lb |
| PTF4    | 109 | 178 | 112 | 566  | 2.3 kg |



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## Digital Cycle Counter

### Installation (see IMI 5.020)

1. Place counter in 1/2" NPS (1/2" BSPT) hole in pump cover (only hole available)
2. Orientate counter in desired direction.
3. Screw sealing nut until wrench tight.

**Caution: Before installation or any maintenance is performed, ensure that all steam, condensate, air or gas lines are closed and internal pressure is relieved to prevent injury.**

Plugs (7) & (8) should not be unscrewed.

### Orientation (see IMI 5.020)

The Digital Cycle Counter orientation may be changed from its original position in the Pivotrol cover and mechanism assembly.

**Caution: Before any maintenance is performed, ensure that all steam, condensate, air or gas has been closed and internal pressure is relieved to prevent injury.**

1. Unscrew sealing nut.
2. Twist cycle counter into desired position, ensuring cable remains in place.
3. Tighten sealing nut.

### Connection Size and Location

| Pump Model  | Connection Size & Location |
|-------------|----------------------------|
| All PTC/PTF | 1/2" NPS Pump on cover     |

**Battery is suitable for up to 7 years of uninterrupted operation.**

### Safety

Digital Cycle Counter is not suitable for hazardous environments. Seating nut contains Teflon<sup>®</sup>.

This product is not intended to be submerged.

