



PCiRT7 RATE TOTALISER

The **PCiRT7 Rate Totaliser** takes the pulsed output from any flowmeter and displays the flow rate and total volume of the process liquid.

Specifications

| | |
|---------------------------------|---|
| Mounting | Panel Mounted |
| Casing | Black powder coated aluminium |
| Bezel | High-impact phenolic plastic |
| Keypad | Polyester with red anti-glare |
| Environmental Protection | Bezel IP65, Rear Case IP21 |
| Dimensions | H 96mm X W 96mm X D 175.4mm |
| Panel Cut-out | 92mm X 92mm |
| Weight | 1.2 kgs |
| Power Input (Mains) | 110 or 230 V AC 45-65 Hz |
| Power Input (DC Supply) | 12 - 24 V DC / 300mA typical |
| Power output | 8 - 24 V DC 50mA |
| Display | 6-digit 10 / 14mm high LEDs |
| Temperature Range | 0 - 45°C |
| Connections | 2 rows of through panel screw terminals |



Features

The **PCiRT7** can display a non-resettable accumulated total at the touch of a button. High- and low-flow rate audio or visual alarms can be set as part of a safety system to protect your plant. Scaled pulse and analogue 4-20mA outputs allow for fast, accurate transmission to other instruments or control equipment.

Operation

Used for the monitoring, controlling, dispensing, blending or filling of any liquid, the **PCiRT7** is housed in a durable aluminium case with standard ¼ DIN format for panel-mounting. The front bezel and keypad have a splash-proof seal which is resistant to most chemicals.

| Input signals | |
|----------------------------|-------------------------|
| 1. Pick-off Coil | |
| Sine wave min. | 7mV all frequencies |
| Sine wave max. | 35V high frequency |
| | 15V low frequency |
| 2. Preamplifier | |
| Switch level | Low level < 8mA |
| | High level > 12mA |
| | Input current max.50mA |
| 3. Switch | |
| Low frequency | DC to 400Hz |
| High frequency | DC to 5kHz |
| 4. Pulse | |
| Switch threshold | Selectable 2.5V or 1.4V |
| 5. Proximity switch | Namur DIN 19234 |
| Switch threshold | 2.2V |
| Switch level Low level | < 1mA |
| High level | > 3mA |

| Outputs | |
|--------------------------|-------------------------------------|
| Pulse Outputs | |
| Scaled pulse | Open collector switching transistor |
| Pulse duration | 50 msec |
| Analogue Output | |
| 4-20mA | Set points are selectable |
| 0-10V | Set points are selectable |
| Accuracy | 0.20% |
| Flow Alarm Relays | |
| Control Relay | 2 SPDT relays |
| Switching voltage | 250 V AC 30 V DC |
| Switching current | 8 A |
| Rate Format | |
| Range | 0.0001 to 999999 |
| Linearity points | Up to 8 factors |
| Linearity correction | Up to +/- 9.99% |
| Total Format | |
| Total Resolution | Preset to display 1, 0.1 or 0.01 |