



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