

FRT303 - Flowrate Totaliser LCD Indicator

FEATURES

- Displays Flowrate, Resetable Total, and Grand Total. Easy reset of Total.
- Internal Battery, external 5 - 25 VDC, external 240 vac, or loop powered options.
- High and low setpoint, Pulse and 4-20mA output options.
- IP65 enclosure with cover to protect LCD. Mounting lugs for wall mounting.
- Fully programmable functions.
- Australian-made, by Manu Electronics.



The FRT303 Flowrate Totaliser is designed to operate with a wide range of pulse/signal output or coil output flowmeters, providing an instantaneous flowrate reading with a resetable Total display and Grand Total display. To toggle the display between the Total and the Grand Total, simply touch the front panel button once. To reset the Total, touch the front panel button twice.

Power is via either: an internal Lithium battery which has a life of up to 10 years; optional external 5-25 VDC; optional external 240 vac; or loop powered. The FRT303 will accept flowmeter input pulses from 0.2 to 2000 Hz (Note: for flowrate calculations, need at least 10 Hz input). The FRT303 is provided in a compact IP65 Polycarbonate enclosure with molded mounts, allowing it to be used in a wide range of field applications.

The unit has other fully programmable optional features including pulse output, 4-20mA output, and Hi-Low flow setpoint outputs. All functions are entered via internal keypads and a menu display. The LCD can be programmed to show flowrate and totals in a number of different units. All application parameters will be pre-programmed according to your requirements, including display unit preferences and the flowmeter K-factor.

Technical/Electrical Specifications

Display

- Flowrate
- Total (resetable)
- Grand Total

Power Options

- Battery

- External power
- Loop powered

Pulse Input

Output Options

- Pulse output
- Current output
- High and Low Flowrate Setpoint

Enclosure

- Dimensions (mm)
- Rating IP66 waterproof
- Access
- Electrical connection

Order Codes

- LCD
- 6 digits, up to 3 decimal places, in Litres, Kilolitres per sec, min, hr.
- up to 7 digits, up to 3 decimal places, in Litres, Kilolitres, Megalitres.
- 7 digits up to 3 decimal places, in Litres, Kilolitres, Megalitres.
- 3.6v Lithium battery (5-10yrs life), 10uA dormant state, with automatic sleep mode to preserve battery power.
- +5 to 25 VDC option; 240 vac option.
- via current loop
- 0.2 to 2000 Hz
- (all scalable via program)
- open collector 5-25 VDC, 100Hz max. 50% duty cycle.
- 4 to 20mA
- open collector 5-25 VDC contact output.
- 120 W, 95 H, 60 D
- Sealed Polycarbonate enclosure with hinged lid and screw lugs for mounting.
- 4 stainless steel screws to access internal programming and wire-up.
- 1 or 2 IP67 cable gland entries, plug-in screw terminals.
- To order, use the appropriate Order Code from the table below:

Order Code	Power Option	Input to FRT from Flowmeter			Outputs					
		Coil	Reed Switch or Open Collector	Pulse/NAMUR	Pulse Output (isolated)	Pulse Output (non-isolated)	High/Low Flowrate indication	4-20mA current output (isolated)	4-20mA current output drive	Tradewaste 6-pin MIL spec plug
FRT303-B	Battery	Y	Y							
FRT303-B-P	Battery	Y	Y			Y				
FRT303-D	DC External power	Y	Y	Y						
FRT303-D-P	DC External power	Y	Y	Y	Y					
FRT303-D-E	DC External power	Y	Y	Y	Y		Y		Y	
FRT303-L	Loop power	Y	Y							
FRT303-L-E	Loop power	Y	Y		Y		Y	Y		
FRT303-A-P	AC External power	Y	Y	Y	Y					
FRT303-A-E	AC External power	Y	Y	Y	Y		Y		Y	
FRT303-A-TW	AC External power	Y	Y	Y	Y		Y		Y	Y

Due to continuous product improvement, specifications are subject to change without notice.

ManuFlo®™

Flow Measurement Products

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