

# FRT303 - Flowrate Totaliser LCD Indicator

## FEATURES

- Displays Flowrate, Resetable Total, and Grand Total.  
Easy reset of Total.
- Power options: Internal Lithium Battery, external 5 - 25 VDC, external 240 vac.
- High and low setpoints, 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; or optional external 240 vac. The FRT303 will accept flowmeter input pulses from 0.2 to 2000 Hz (Note: for steady flowrate calculations, need at least 5 Hz input). A filter factor is programmable, to smooth the flowrate reading for pulsating flows.

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.

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.

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-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

**Technical/Electrical Specifications**

**Display**

- Flowrate
- Total (resetable)
- Grand Total
- 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.

**Power Options**

- Battery
- External power
- 3.6v Lithium battery (5-10yrs life), 10µA dormant state, with automatic sleep mode to preserve battery power.
- +5 to 25 VDC option; 240 vac option.

**Pulse Input**

- 0.2 to 2000 Hz

**Output Options**

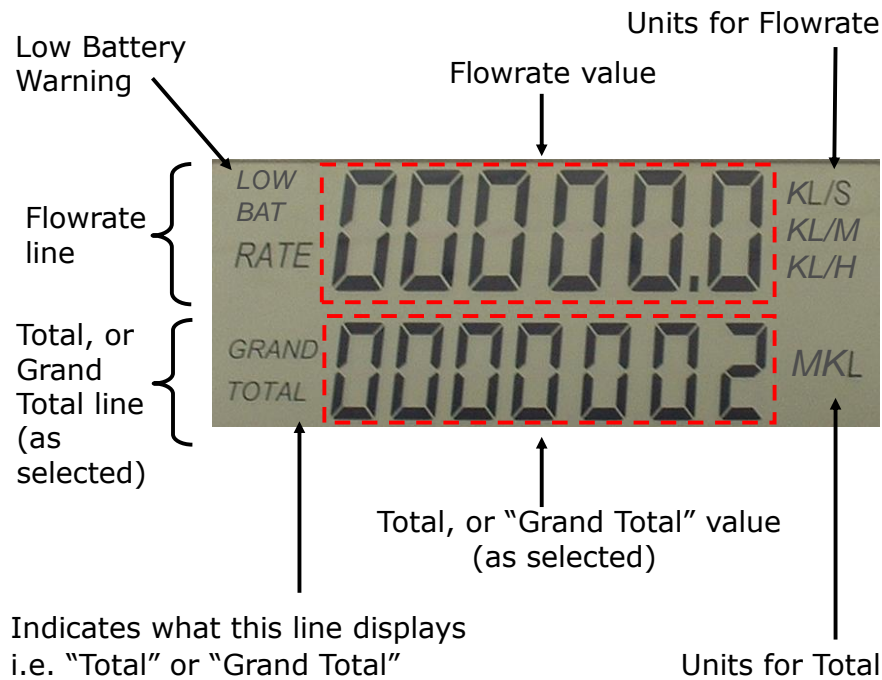
**(all scalable via program)**

- Pulse output
- Current output
- High/Low Flowrate Setpoint
- open collector 5-25 VDC, 100Hz max. 50% duty cycle.
- 4 to 20mA
- open collector 5-25 VDC contact output.

**Enclosure**

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

**Elements of the LCD Display**



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