

MODEL 102D

FEATURES

- Linearised Input
- Fully Programmable
- Displays Rate, Total and Accumulated Total
- Powered by Long-life Replaceable Batteries
- Panel, Wall and Pipe Mounting
- Watertight to IP67 (Nema 4X)
- CE Compliant

BATTERY POWERED

Rate Totaliser



The 102D Rate Totaliser is designed to operate with virtually any pulse/frequency generating flowmeters including Turbine, Positive Displacement, Electromagnetic and Coriolis. The unit is powered entirely from the internal replaceable batteries.



Field Mounting Rate Totaliser

PROVEN IN THOUSANDS OF FIELD INSTALLATIONS THROUGHOUT THE WORLD.

The 102D is a high accuracy Rate Totaliser designed to operate with digital output flowmeters. Having an IP67 weatherproof case, tactile keyboard and various mounting options, makes it a very versatile unit.

The Rate Totaliser is fully programmable with 10 point linearisation curve for improved accuracy, frequency cut-off and conversion factors (i.e. rate in Litres – totalise in Tons). A non-volatile memory stores all set up parameters and totals.

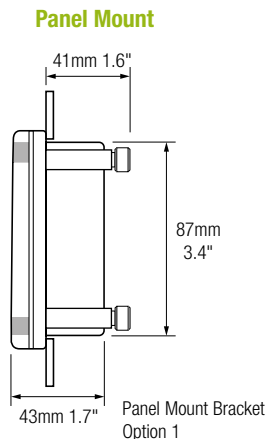
Rate of Flow, Resettable Total and Accumulated Total are all programmable in engineering units.

The 102D Rate Totaliser is housed in a rugged, yet attractive, IP67 (Nema 4X) polycarbonate enclosure which is completely watertight. A wall mounting bracket (no gland holes) is supplied as standard, while panel and pipe mounting brackets are available as options.

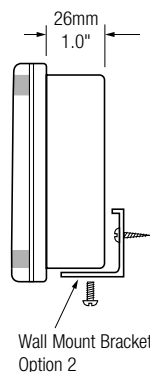
DIMENSIONS

Overall Sizes

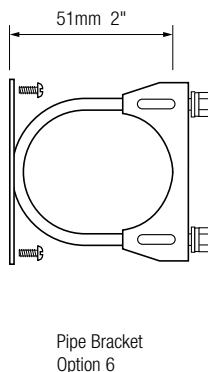
151mm (5.9") width
98mm (3.9") height
43mm (1.3") depth



Wall Mount (standard glands)



Pipe Mount Adapter



TERMINAL DESCRIPTIONS

Terminal Inputs	
Description	
FR (-)	Signal Input (-)
FR (+)	Signal Input (+)

PRODUCT CODES

Product Code & Mounting Types		
102D	•	Rate Totaliser
Enclosure Mounting	0	Wall Mounting (no gland holes)
	1	Panel Mount Brackets
	2	Wall Mounting (standard glands)
	6	Pipe Mount Adapter

Typical Part Number: 102D .2

GENERAL SPECIFICATIONS

Operating

Temperature Limits: -20 to +60°C, -4 to +140°F

Enclosure

Cable Entry: By cable gland
Materials: Polycarbonate and ABS

Display

Total: 7 digit 10mm (0.4") high LCD (continuously powered). *Note: The Reset Total is resettable from the front panel and the Accumulated Total is displayed when the ACCUM TOT key is pressed*

Rate: 5 digit 8.5mm (0.33") high LCD (continuously powered)

K-factor Range: The pulses per unit of measure (eg.pulses/gallon) is programmable in the range 0.000001 to 999,999

Decimal Points: Fully programmable for Rate and Total

Time Base: Rates can be displayed in units per second, minute, hour or day

Frequency Range: 0.01Hz to 10kHz

Signal Type: Switch settable for sine wave (15mV P-P minimum), open collector, reed switch or pulse

Interference: CE compliance

Battery

Type: 2 x Lithium batteries

Battery Life: 2 years

Instruments within the Contrec family:

100 Series – Accurate process instruments for field mounting applications

200 Series – Intrinsically safe, precise and reliable process instruments

400 Series – Rugged and dependable batch and flow control solutions

505 Series – Next generation flow instruments for a variety of applications

515 Series – Precise flow and batch control for more complex applications

1000 Series – Robust load computers for petroleum and chemical applications

TRAC 40 – Vehicle mount custody transfer approved registers



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