100 Series



MODEL 104D

LOOP POWERED Rate Totaliser

FEATURES

- High and Low Flow Rate Alarms
- 4-20mA Output
- Pulse Output
- Fully Programmable
- Displays Rate, Total and Accumulated Total
- Loop DC Powered
- Panel, Wall and Pipe Mounting
- Watertight to IP67 (Nema 4X)
- CE Compliant

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The 104D is a 4-20mA Loop Powered Rate Totaliser and is designed to operate with Turbine, Positive Displacement and Paddlewheel Flowmeters in applications such as irrigation systems and pipelines, and as a replacement for mechanical registers.



Field Mounting Rate Totaliser

PROVEN IN THOUSANDS OF FIELD INSTALLATIONS THROUGHOUT THE WORLD.

The 104D 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.

TERMINAL DESCRIPTIONS

4-20mA (+) Output

4-20mA (--) Output

High Alarm (--) or Pulse (--)

High Alarm (+) or Pulse (+)

Low Alarm (--)

Low Alarm (+)

Signal Input (--)

Signal Input (+)

Terminal Inputs & Outputs

Number

1

2

3

4

5

6

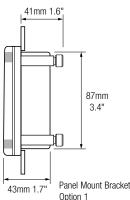
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DIMENSIONS

Overall Sizes

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



Panel Mount

Wall Mount (standard glands)

51mm 2' 旧

Pipe Bracket Option 6

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

4-20mA

Resolution and Linearity: 0.05% of span Accuracy: 0.05% of span @ 25°C, 0.1% (typically) of span full temperature range Update Time: 0.5 second Connection: 2 wire Voltage Drop: 2.5V maximum

High & Low Alarms

Type: 2 x open collector output alarms suitable for driving DC solenoid or external relays. The outputs provide: 1. high, 2. low Switching Power: 200mA. 30Vdc maximum Saturation Voltage: 0.8Vdc across the output in the "ON" state Isolation: All outputs are separately opto-isolated

Battery

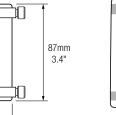
Type: 2 x Lithium batteries Battery Life: 2 years





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26mm 1.0"

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Wall Mount Bracket

PRODUCT CODES

Option 2

The 104D 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

brackets are available as options.

standard, while panel and pipe mounting

Product Code & Mounting Types 104D • **Rate Totaliser** Enclosure 0 Wall Mounting (no gland holes) 1 Panel Mount Brackets Mountina 2 Wall Mounting (standard glands) 6 Pipe Mount Adapter

Typical Part Number: 104D .2

GENERAL **SPECIFICATIONS**

Operating

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

Enclosure

Cable Entry: By cable gland Materials: Polycarbonate and ABS

Total: 7 digit 10mm (0.4") high LCD (continuously

from the front panel and the Accumulated Total is

displayed when the ACCUM TOT key is pressed

K-factor Range: The pulses per unit of measure

(eg.pulses/gallon) is programmable in the range

Decimal Points: Fully programmable for

powered). Note: The Reset Total is resettable

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

(continuously powered)

0.000001 to 999,999

Rate and Total

Display

Pipe Mount Adapter