contrec

MODEL 102A

FEATURES

- Linear or Square Law Inputs
- Pulse Output
- High and Low Rate Alarm
- Fully Programmable
- Displays Rate, Total and Accumulated Total
- Powered by 4-20mA Loop
- Panel, Wall and Pipe Mounting
- Watertight to IP67 (Nema 4X)
- CE Compliant

C E

LOOP POWERED

Rate Totaliser

The 102A Rate Totaliser is designed to operate with any flowmeter which produces a 4-20mA output, including Differential Pressure Devices, Magnetic or Vortex Flowmeters. The unit is powered entirely from the 4-20mA current loop.

Field Mounting Rate Totaliser

PROVEN IN THOUSANDS OF FIELD INSTALLATIONS THROUGHOUT THE WORLD.

The 102A is a high accuracy Rate Totaliser designed to operate with analogue 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 linear or square law input relationships, programmable span, cut-offs and conversion factors. A non-volatile memory stores all set-up parameters and totals in the event of a power failure.

High and low alarms are standard via optically isolated solid state relay outputs. Alternatively, the high alarm output can be programmed to provide a scaled pulse output proportional to the total.
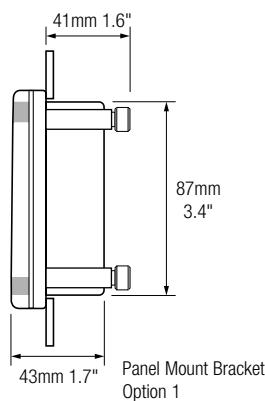
The 102A Rate Totaliser is housed in a rugged, yet attractive, IP67 (Nema 4X) polycarbonate enclosure which is completely watertight. A wall mounting bracket (no gland holes) is supplied as standard, while panel and pipe mounting brackets are available as options.
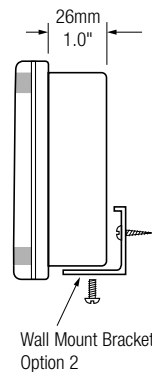
GENERAL SPECIFICATIONS

Operating

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

Enclosure

Protection: IP67 (Nema 4X) watertight
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)

Input

Signal Type: 4-20mA
Resolution and Linearity: 0.05% of span
Accuracy: 0.5% of span @ 25°C, 0.1% (typ) of span, full temperature range
Update Time: 0.5 second
Connection: 2-wire
Voltage Drop: 2.5 volts maximum

Alarm / Pulse Outputs

Type: 2 x solid state relay outputs suitable for driving DC solenoid relays
Switching Power: 200mA, 30Vdc maximum
Saturated Voltage: 0.8Vdc typical across the outout in the 'ON' state
Isolation: Both outputs are separately opto-isolated
Pulse Duration (for pulse output):
a. 1ms if output frequency is >50Hz
b. 10ms if output frequency is 5...50Hz
c. 100ms if output frequency is <5Hz

DIMENSIONS

Overall Sizes

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

Panel Mount

41mm 1.6"
87mm 3.4"
43mm 1.7"

Panel Mount Bracket Option 1

Wall Mount (standard glands)

26mm 1.0"

Wall Mount Bracket Option 2

Pipe Mount Adapter

51mm 2"

Pipe Bracket Option 6
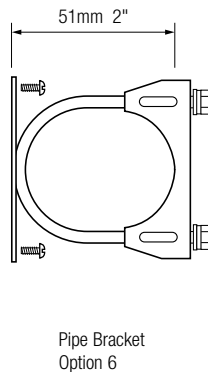
TERMINAL DESCRIPTIONS

Terminal Inputs & Outputs	
Number	
3	Signal Input (−)
4	Signal Input (+)
5	Low Alarm (−)
6	Low Alarm (+)
7	High Alarm (−) or Pulse (−)
8	High Alarm (+) or Pulse (+)

PRODUCT CODES

Product Code & Mounting Types			
102A	•		**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: 102A .2

LLOYD'S REGISTER-LRQA
ISO 9001
UKAS MANAGEMENT SYSTEMS 001

Made in Britain