

FLOW RATE INDICATOR & TOTALIZER

EquinoxTM



Model: EQ-RC 102A

Rate or Total Display Mode :

The Instrument display toggles between RATE display and TOTAL display at the momentary press of R/T (■) key. In rate mode RATE LED glows & in totaliser mode TOTAL LED glows.

Configuration Scheme

To enter configuration short terminals 3 & 4 and turn the power on. Configure the unit as per the instructions below.

1. To select scale factor mantissa

KEY PRESS	DISPLAY	DESCRIPTION
Scale factor mantissa	1.00000	Set between 0.00001 to 9.99999 as described below :

The blinking digit increments by 1 for every press of the ▲ key & rolls over from 9 to 0. The blinking digit shifts to next digit (right) for every press of ► key. Using these keys user can set the required value.

2. Press R / T ■ Key to select scale factor exponent

Scale factor mantissa	0	$10^0 = 1$
Press ▲	1	$10^1 = 10$
Press ▲	2	$10^2 = 100$
Press ▲	- 3	$10^{-3} = 0.001$
Press ▲	- 2	$10^{-2} = 0.01$
Press ▲	- 1	$10^{-1} = 0.1$

3. Press R / T ■ Key to select totaliser resolution

Totaliser resolution	1	Least count = 1
Press ▲	0.1	Least count = 0.1
Press ▲	0.01	Least count = 0.01

4. Press R / T ■ Key to select max. Input frequency

Max. input frequency	2500	Fast speed (maximum 2500 hz)
Press ▲	30	Slow speed (maximum 30 hz)

5. Press R/T ■ Key to complete setting, display will go to step 1

(scale factor mantissa setting). To quit configuration :
(1) Turn power off (2) Remove link between terminal no 2 & 4. (3) Turn power on.

TO READ SCALE FACTOR, RESOLUTION & SPEED

KEY PRESS (MOMENTARY)	DISPLAY	NAME / DESCRIPTION
PRG ►	1.00000	Scale Factor (Mantissa)
PRG ►	0	Scale Factor (Exponent)
PRG ►	1	Totaliser Least Count
PRG ►	2500	Maximum Input

NOTE : Maximum display time is 3 sec. If the key is pressed again within 3 sec. of previous key press, display shows next parameter, otherwise it shows rate or total as per selection

Specifications

DISPLAY

Type : 7 segment LED; Height: 0.5"
Counter: 6 digits, Rate: 4 digits.

RANGE

Counter: 9999.99, 99999.9 & 999999.
Rate: Auto ranging (4.00 to 9999 RPM).

ACCURACY

Rate : 0.05%

SCALE FACTOR

Programmable from 0.00001 to 9.99999×10^n
 $n = -3, -2, -1, 0, 1, 2.$

INPUTS

3-30 VDC from Flow sensors, Proximity switches, Encoders, Potential free contacts, Limit switches etc.

SENSOR SUPPLY

12 VDC ($\pm 10\%$), 30mA short circuit protected

CONFIGURATION LOCK

via rear terminals.

RESET

1. On front panel.
2. Remote reset (via rear terminals).

MEMORY RETENTION

Current count value : 1 year
Parameter settings : 10 years.

SUPPLY VOLTAGE

90 TO 270 V AC/DC @ 50/60Hz.

OPERATING TEMP.

Operating: 0 - 50°C, Storage: -20 - 75°C.

HUMIDITY

95% RH.

HOUSING

Flame retardant plastic.

WEIGHT

250 gms.



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