

FLOW RATE INDICATOR



TECHNICAL SPECIFICATION

FEATURES

- Micro controller based design
- LED / LCD Display
- mA / Volts / Pulse Inputs
- Range Programmable to full scale reading
- Monitoring & Control application
- Optional current output
- Optional RS485 port
- Optional control set points
- Custom designed solution

KEY FUNCTION

- Display selection : On key selection, flow rate and integrated flow are shown (For LED Display)
- Range & Resolution Selection : Through keypad
- Scale Factor : 0.000001 - 9.999999 x 10ⁿ; where n=-3, -2, 0, 1, 2, setting through front panel keypad
- Reset Input : Using keys with password protection
- Memory Retention : EERAM Store integrated flow last > 10 Years

RATING

- Auxiliary Power Supply : 90-270V AC 50Hz
- Operating Temperature : 55°C (Max.)
- Humidity : 5 - 95% Rh non-condensing

CASE AND DIMENSION

- Enclosure : ABS Plastic
- Box Dimension : Bezel : 96(H) x 96(W) x 120(D) mm
Cutout: 88(H) x 88(W) mm
- Mounting : Panel

OPTIONAL

- Control set point one (or) two on integrated reading of flow rate with Relay outputs.
- RS485 Serial port for flow rate
- 4-20mA, Current output for flow rate

MEASURED QUANTITIES

- Function : Flow rate indicator and Totaliser
Instant Flow & Cumulative Flow

DISPLAY

- Display Size : 2 Row 16 Character LCD (or)
7 Digit 0.39" 7 Segment red LED

RANGE

- Range Setting in Engg. Units : 0.001 to 99999 for flow rate
9999999 for totaliser
- Resolution : 0.001 / 0.01 / 0.1 / 1 for instant flow
0.01 for totaliser
- Accuracy : ±0.05% OFS

INPUT

- Input : 4-20mA, 1-5V, 0-10V, 0-10KHz



INDUSTRIAL CONTROLS & DRIVES (INDIA) PVT. LTD.

No. 33, Mettukuppam Road, (Via Alappakkam Road), Maduravoyal, Chennai - 600 095
 Phone: 044 - 4293 4324 / 4293 4325 / 4293 4333 Fax: 044 - 4293 4355.
 E-mail: gicdipl@vsnl.com, sales@icdipl.net

Website: www.icdipl.net

LED DISPLAY BOARD

(DIRECT INPUT)

(REMOTE SERIAL INPUT)



TECHNICAL SPECIFICATION

DISPLAY

Function	: Large size electronic display to show Process parameters
Display Size	: 2", 4", 6" and 12"
Display Type	: Monolithic 7 Segment Display for 2" & 4" and discrete LED for 6" & 12"
No. of Digit	: 4 / 6 / 8 / 10 / 12
(Option)	Alpha Numeric LED Matrix Display for text & numeric

INPUT

Input Types	: a) Thermocouple(J,K) b) PT100Ω RTD c) 4-20mA / 0-20mA d) 0-75mV / 0-1V / 0-10V e) Data through serial communications (MODBUS-RTU protocol as standard user defined protocol can also be developed) e) User specified input can also be accepted
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KEY FUNCTION

Settings and Calibration	: Through Separate keypad unit with password Protection
Control action and relay	: 2 Numbers can be provided as optional feature
Power supply	: 90-270V AC

CASE AND DIMENSION

Enclosure	: Sheet steel Enclosure
Box Dimension	: Size is determined by number of digit and display size
Mounting	: Wall Mounting / Hanging

OPTIONAL FEATURES

1. Double side Display
2. RS485 Communication output to interface with PC supporting MODBUS-RTU Protocol

RANGE, RESOLUTION AND ACCURACY

Sl. No.	INPUT TYPE	RANGE	RESOLUTION	ACCURACY
1	Thermocouple(J)	600°C	1°C	±0.25% OFS
2	Thermocouple(K)	1200°C	1°C	±0.25% OFS
3	PT100Ω RTD	200°C	0.1°C	±0.25% OFS
4	4-20mA / 0-20 mA	±10000 Units	1 Unit	±0.1% OFS
5	0-75 mV / 0-1 V / 0-10V	±10000 Units	2 Unit	±0.1% OFS
6	Data through serial communication	User Specified	User specified	No Error

DIMENSION

DISPLAY SIZE	4 DIGITS	6 DIGITS
2 Inch	144 (H) x 288 (W) x 180 (D) mm	200 (H) x 450 (W) x 175 (D) mm
4 Inch	200 (H) x 450 (W) x 175 (D) mm	200 (H) x 650 (W) x 175 (D) mm
6 Inch	230 (H) x 475 (W) x 175 (D) mm	230 (H) x 700 (W) x 175 (D) mm
12 Inch	400 (H) x 875 (W) x 200 (D) mm	