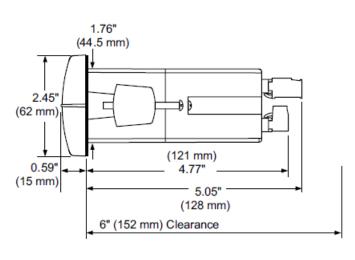


Model 122 Indicator

FEATURES

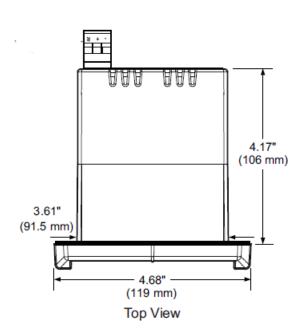
- Dual-line 6-digit display, 0.60" & 0.46"
- 9 digit totalizer with overflow indication
- Isolated 4-20mA output programmable to flow rate, min/max, total or grand total
- Pulse input, single K-factor or linearization table
- Displays can be assigned to rate & total, min/max or alternating measurement and units
- Rate display smoothing is adjustable via the low gate setting
- Indicator can be scaled and programmed off-line
- RS-485 serial port with Modbus® RTU protocol
- Programmable display of any engineering units
- Multi-level security password(s) for programming and total
- Non Volatile memory maintains programming and total
- 110/220 Vac powered
- Accessory power 24Vdc
- Front panel sealed to NEMA 4X rating
- UL rated and CE approved

DIMENSIONS









Model 122 Indicator

GENERAL SPECIFICATIONS

Display: Upper display: 0.60" (15 mm) high. Lower display: 0.46" (12 mm) high. Both are 6 digit, red LEDs.

Display Assignment: The upper and lower displays may be assigned to rate, total, grand total, alternate (rate/total, rate/grand total, rate/units, total/units, and grand total/units), max/min, units (lower display only), or Modbus input.

Password: Three programmable passwords restrict modification of programmed settings and two prevent resetting the totals.

Non-Volatile Memory: All programmed settings are stored in non-volatile memory for a minimum of ten years if power is lost.

Power Options: 85-265 Vac 50/60 Hz, 90-265 Vdc 20 W max

Fuse: Required external fuse: UL Recognized, 5 A max, slow blow; up to 6 indicators may share one 5 A fuse.

Isolated Transmitter Power Supply: Terminals P+ & P-: 24 Vdc ±10%. Rated @ 25mA max.

Pulse Inputs

Inputs: Intended for 5 V TTL, square wave pulses

Minimum Input Frequency: 0.001 Hz - Minimum frequency is dependent on high gate setting.

Maximum Input Frequency: 30,000 Hz

Input Impedance: Pulse input: Greater than 300 k Ω @ 1 kHz.

Accuracy: ±0.03% of calibrated span ±1 count

Display Update Rate: Total: 10/sec, Rate: 10/sec to 1/1000 sec

Multi-Point Linearization: 2 to 32 points

K-Factor: Field programmable K-factor converts input pulses to rate in engineering units. May be programmed from 0.00001 to 999,999 pulses/unit.

Time Base: Second, minute, hour, or day Low Gate (smoothing): 0.1-99.9 seconds

High Gate (rate meter time out): 2.0-999.9 seconds

Rate/Totalizer

Decimal Point: Up to five decimal places or none: Total decimal point is independent of rate decimal point.

Total Reset: Via front panel button, through serial communications, or external contact closure on digital inputs (F4 Digital Input Contacts: 3.3 Vdc on contact. Connect normally open contacts across F4 to COM).

Total Reset Password: Total and grand total passwords may be entered to prevent resetting the total or grand total from the front panel.

Non-Resettable Total: The grand total can be permanently programmed as non-resettable by use of a password.

Isolated 4-20 mA Transmitter Output

Output Source: Rate, total, grand total, max, min, manual control setting, or Modbus input

Scaling Range: 1.000 to 23.000 mA for any display range Calibration: Factory calibrated: 4.000 to 20.000 = 4-20 mA output

Accuracy: $\pm 0.1\%$ FS ± 0.004 mA

Temperature Drift: $0.4 \,\mu\text{A/}^{\circ}\text{C}$ max from 0 to 65°C ambient, 0.8 $\,\mu\text{A/}^{\circ}\text{C}$ max from -40 to 0°C ambient

Isolated Transmitter Power Supply: Terminals I+ & R: 24 Vdc ±10%. May be used to power the 4-20 mA output or other devices. Rated @ 40 mA max.

External Loop Power Supply: 35 Vdc maximum

Output Loop Resistance:

Power supply Minimum Maximum 24 Vdc 10Ω 700Ω 35 Vdc (external) 100Ω 1200Ω

Serial Communications

Protocol: Modbus® RTU

Meter Address/Slave ID: 1 - 247 Baud Rate: 300 - 19,200 bps

Data: 8 bit (1 start bit, 1 or 2 stop bits)

Parity: Even, odd, or none with 1 or 2 stop bits

Environmental:

Operating temperature range: -40 to 65°C Storage temperature range: -40 to 85°C Relative humidity: 0 to 90% non-condensing

Connections: Removable screw terminal blocks accept 12 to 22 AWG wire

Mounting: 1/8 DIN panel cutout required: 3.622" x 1.772" (92 mm x 45 mm). Two panel mounting bracket assemblies are provided.

Front Panel: NEMA 4X, IP65

Dimensions: 4.68" x 2.45" x 5.64" (119 mm x 62 mm x 143 mm) (W x H x D)

Weight: 9.5 oz (269 g)

UL File Number: UL & c-UL Listed. E160849; 508 Industrial Control Equipment.