

Model 1810

Liquid Level Monitor



The INCON Model 1810 liquid level monitor is a sophisticated microprocessor-based panel instrument that is powerful, flexible, and easy to install.

APPLICATIONS

The INCON Model 1810 is ideal for use in liquid level monitoring applications that require special functionality, such as level-to-volume conversion. It is perfect for use at hydroelectric plants, water level measurements, industrial process control, water treatment and other liquid storage applications.

- Designed for use with the INCON family of submersible level/depth pressure transmitters and other 4-20mA level sensors
- Capable of calculating volume from tank shape or lake-bottom topographical data, in applications where volume is not a simple multiplier times height
- May be equipped to retransmit level or volume in analog, parallel digital, or serial form
- Allows for sensor-to-monitor field calibrations without any additional equipment

CAPABILITIES

The Model 1810 determines liquid level by accepting a 4-20mA signal from a liquid level transmitter.

- The operator may select any one of three differently scaled quantities
- Utilizes a 5-digit LED display that displays height, volume, or pressure in user-defined units
- Can be configured with programmable limit outputs for alarm or control functions
- Retains memory during loss of power
- Allows system configuration to be done through an easy-to-use, menu-driven set up mode.

FEATURES

- ▶ Flexible programmable features allow it to be tailored to meet special operational requirements
- ▶ Easy to configure and operate, with simple, menu-driven programming and set up capability from the front panel
- ▶ Can calculate volume from strapping table, contour data, or tank shape
- ▶ Exceptional resolution and linearity
- ▶ Bright, highly visible LED display
- ▶ Lockout feature to protect programmed settings
- ▶ No calibration required before use
- ▶ Factory calibrated and system calibration capability

SPECIFICATIONS

GENERAL

Input	4 to 20 mA
Resolution	± 0.001% of full scale
Accuracy	± 0.02% of full scale, maximum (.01% typical)
Temperature Drift	± 0.01% per degree Celcius
Operating Temperature	0° - 55° C
Humidity	10% to 90% non-condensing
Weight	24 ounces
Dielectric test	1000 V DC for 1 minute, line to any other terminal
Voltage	117/234 VAC ±10%
Frequency	47-63 Hz
Load	8 VA, maximum
Transmitter Power	Internal 24VDC loop supply

DISPLAY

Type	Five-digit LED
Height	0.56 inch (14.2 mm)
Viewing distance	23 feet
Decimal Point	Field-programmable

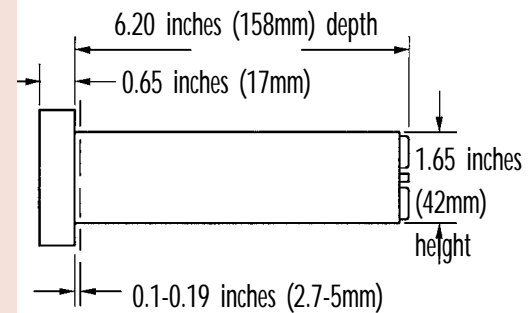
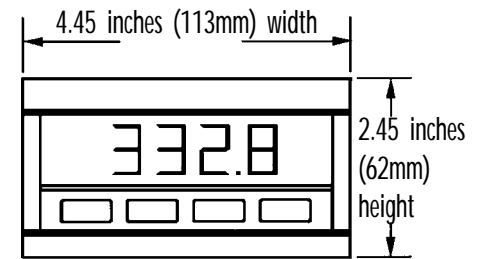
OPTIONAL ANALOG OUTPUT

Outputs	0-1mA, ±1mA, 0-2mA or 4-20mA 0-10VDC or ±10VDC
Compliance	10 volts (0-1mA, ±1mA, 0-2mA) (500 Ohms 4-20mA) 5 mA (0-10 VDC, ±10 VDC)
Non-linearity	± 0.1% of full scale
Resolution	12 bits (± 0.025% of full scale)

OPTIONAL HI/LOW RELAYS

Contact Rating	3A @ 125/250 VAC, HP, @ 30 VDC
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1810 DIMENSIONS



Panel cut out: 1.653 (42mm) x 3.543 (90mm)

Panel thickness: 0.1 (2.7mm) to 0.19 (5.0mm)

ORDERING INFORMATION

1810-q-r-t-u = options, see below

OPTIONS

q= Analog Output:	0 (0-1mA)	4 (4-20mA)
	1 (±1mA)	10 (10VDC)
	2 (0-2mA)	11 (±10VDC)
r = Control:	R (Hi/Low Relay Limits)	
	E (External Relays)	
t= Communications:	PB (Parallel Data) or S (RS-232), or B (Multiplexed BCD)	
u= Line Voltage options:	120 (120VAC)	240 (240VAC)



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FOR MORE INFORMATION CALL:

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