



The Model IT150 industrial remote totalizer is a battery-powered device that provides flow totalization in most engineering units. Total is displayed via an 8-digit liquid crystal display. Reset of the totalizer is accomplished externally by a magnetic field. This

particular feature retains the unit integrity permitting complete operational control in hazardous environments. Negatives previously associated with LCDs - poor cold temperature performances, condensation (a byproduct of heaters), and display ghosting have all been eradicated by incorporating a low temperature coefficient LCD (-35&176;C). All monolithic and discrete devices of the IT150N have temperature specs of &173;40&176;-125&176;C. In addition, the IT150N provides one digital output signal. The scaled pulse output is provided in an open drain configuration in which the pulse amplitude assumes the level of the host device.

### Theory of Operation

The IT150N amplifies and shapes the incoming pulses generated by the turbine response to flow. The amplified pulse train is then scaled and divided to produce a totalized display in the desired engineering unit.

### Calibration

Field calibration is accomplished by incorporating a calibration factor based in the turbine K-Factor. Divider switches provide divisional increments of 0.0000001-1.9999. The calibration factor is entered via four BCD switches and a divider switch.

## Model IT150N Specifications

#### Display:

8-digit LCD 0.3"

#### Power input:

Internal AA Lithium battery

Battery life: typically 4yr @24hr/day and max flowrate

#### Flowmeter input:

Frequency: 0-10KHz

Sensitivity: 50mV-36V sine or square wave. (field adjustable)

Impedance: 10Kohms

#### Digital pulse output:

Factored pulse output via open drain @1A

#### Accuracy:

Totalizer indicator  $\pm 1$  count

#### Engineering units:

Any engineering unit is available.

Input factoring: .0000001-1.9999

#### Temperature:

Operating: 40-121°F(40-85°C)

Storage: 85-257°F(65-125°C)

#### Enclosure:

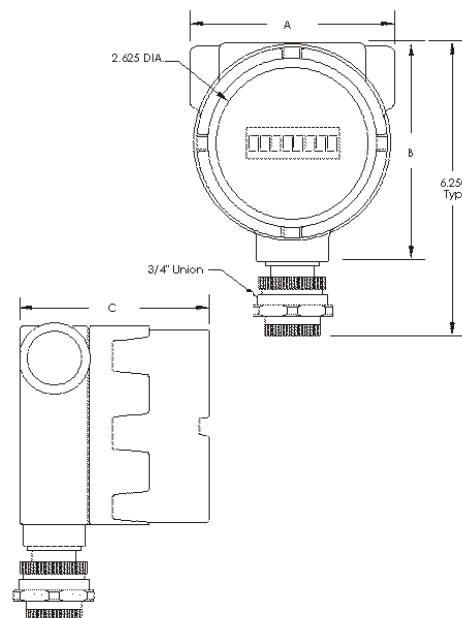
FM Approved, CSA Certified  
Class I, Division 1, Groups B, C, & D  
Class II, Division 1, Groups E, F, & G  
NEMA 4

Weight: 2.5lbs.

Mounts directly on flowmeter

Magnetic Reset

## Dimensions



Unit	A	B	C
IT150N	4.500	4.500	3.500
IT200N	4.500	4.500	3.500
IT275N	4.500	4.500	3.500
IT300N*	5.000	5.000	4.750

Dimensions in inches

\*Note. The IT300N is provided with two holes in the body not shown in the above figure which allow panel mounting. The holes are 5.25" apart and approx. 2.5" from the top of the unit.