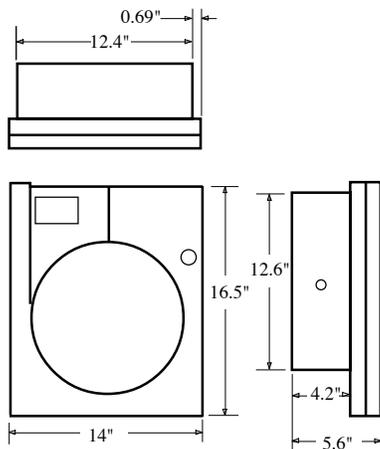




**MODEL IN48**  
 INDICATOR-TOTALIZER-RECORDER  
 SOLID STATE CONSTRUCTION  
 12" CIRCULAR CHART  
 CURRENT INPUT SIGNAL



#### DESCRIPTION

**MODEL IN48 INDICATOR-TOTALIZER-RECORDERS** provide instantaneous flow rate indication, a totalization of flow volume, and a record of flow data from Water Specialties current output transmitters. The reliability of the printed circuit cards and solid state components utilized in construction provide continued accurate and dependable operation of the instrument.

**OPERATION** Electronic circuitry within the transmitter furnishes a 4-20 mA<sub>dc</sub> current signal proportional to the rate of flow through the measuring unit. The current input signal drives the recorder mechanism. Internal power supply is furnished to provide power to transmitter. The unit is equipped with an EEPROM which stores all program and totalizer count data for minimum of 10 years in the event of a power failure. Also there is a 10 year battery for an integral real time clock and for data printing.

**INSTALLATION** of the case can be made through the front of an instrument panel or to any flat surface. Two mounting brackets hold the unit securely in place in either installation. For the best operation of the system the signal line should be of an armored cable and the power and signal lines to the instrument should be placed in separate conduits to prevent extraneous voltages from signal interference.

**CASE** is impact resistant thermoplastic conforming to NEMA 3 requirements with a pressure latched, gasketed door with viewing window that seals the instrument from dust and moisture.

**INDICATOR** is digital LED, and may be configured to read in gallons per minute, cubic feet per second, or any liquid rate measuring units. The indicator measuring units must match the totalizer units.

**TOTALIZER** is digital LED, and may be configured to read in gallons, cubic feet, or any liquid measuring units. The totalizer measuring units must match the indicator units.

**CHART DRIVE** may be configured so chart rotation is equal to 24 hours, 7 days, 31 days, or optional speeds from 6 hours to 31 days. Chart rotation is specified when ordering and set at the factory.

**CHART** is standard 12" and is heat sensitive, so it is supplied "blank". Unit prints its own chart including all dates, times, flow data, etc., as selected by the user. The recorder is factory set (per customer specification) so that the flow range, chart drive, totalizer units and indicator scale and units are "locked out". The factory security code can be changed by the customer if so desired.

#### SPECIFICATIONS

<b>ACCURACY</b>	±0.15% of span
<b>TEMPERATURE RANGE</b>	58° F minimum to 131° F maximum
<b>HUMIDITY</b>	10-90% RH, non-condensing
<b>POWER SUPPLY</b>	115 VAC ± 5%, 60 HZ, 1 phase Power consumption: 24 watts maximum
<b>REPEATABILITY</b>	.10% of full scale
<b>RESPONSE</b>	Less than four seconds for full scale
<b>INPUT SIGNAL</b>	4-20 mA <sub>dc</sub> standard with 20 mA <sub>dc</sub> at maximum indicator scale. 0-5V, 0-10V 10-50 mv inputs available. (consult factory for other inputs)
<b>24V POWER</b>	Built in to operate up to 2 transmitters
<b>SHIPPING WEIGHT</b>	41 pounds
<b>OPTIONAL EQUIPMENT</b>	is available upon request and includes: locking door up to 4 inputs up to 6 alarms up to 4 totalizers chart illumination auxiliary output: 4-20 mA <sub>dc</sub> up to 900 ohms maximum hose down door
<b>ORDERING INFO</b>	Must be specified by the customer and includes: Indicator scale and units, totalizer units chart speed, and optional equipment desired.

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