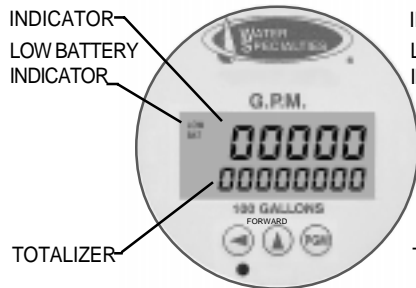
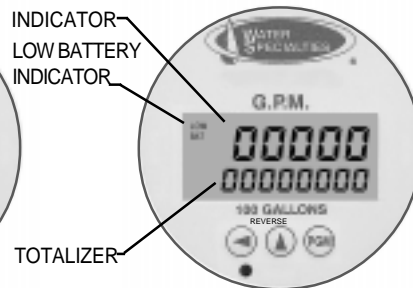




**MODEL CN-04-2-D**  
FORWARD AND REVERSE  
DIGITAL INDICATOR-TOTALIZER  
FOR TWO DIRECTIONAL FLOW  
INDICATION AND TOTALIZATION



TYPICAL FORWARD  
DIGITAL INDICATOR-TOTALIZER



TYPICAL REVERSE  
DIGITAL INDICATOR-TOTALIZER



#### DESCRIPTION

**MODEL CN-04-2 INDICATOR-TOTALIZERS** provide a flow rate indication and totalization of flow volume when mounted on our electronic propeller meters. The unit features a digital indicator-totalizer and solid state construction.

**INSTALLATION** is normally made at the factory when the meter is assembled, but installation may be made in the field on a propeller meter by removing all the moving parts in the gear box and replacing it with a kit consisting of a probe and cable to connect into the new CN-04-2 that attaches on top of the meter head. The unit is furnished complete with all screws and O-rings necessary for installation. A kit of optional adapters and up to 100 feet of cable is available to locate a CN-04-2 at a remote locations.

**CONSTRUCTION** of the digital indicator-totalizer features an O-ring sealed housing conforming to NEMA 4X standards which has a padlock hasp. The unit uses the latest solid state components, and is completely encapsulated to protect it from moisture. It is electronically driven by a sensor output directly from, and is proportional to, the rotation of the propeller.

**DIGITAL INDICATOR-TOTALIZER** has a non-volatile EEPROM memory to store totalizer count (updated every 60 minutes while running). The indicator dial can be furnished in GPM, CFS, MGD or any standard liquid measuring units with a choice of totalizer measuring units. The display is programmable to update from 0.5 to 5 seconds, and timeout from 1 to 9999 seconds.

**INDICATOR (rate) FUNCTION** is a five digit indicator with .35" tall numbers, programmable with 0 to 4 decimal point place with 0.0001 to 9999 rate scaling factor. The calculation method is 1/Tau; programmable smoothing of 0 to 99%; rate zero time of 8 seconds.

**TOTALIZER FUNCTION** is an eight digit totalizer with .20" tall numbers, programmable with 0 to 4 decimal places, and a total scaling factor of 0.0001 to 9999. The totalizer can be reset from the front panel or disabled permanently.

#### SPECIFICATIONS

<b>ACCURACY</b>	Rate: $\pm 0.25$ % of reading.
<b>TEMPERATURE RANGE</b>	Operation: 32° to 160° F. Storage: -40° to 160° F. Consult factory for special construction for other temperatures.
<b>INPUT SIGNAL</b>	Type - Voltage pulse. Voltage Range - 1 to 10V (with hysteresis). Minimum Frequency - 0.125Hz. Maximum Frequency - 3KHz. Minimum Pulse Width - 2 $\mu$ s.
<b>EMI/EMC</b>	Electrostatic Discharge - 8KV (IEC 1000-4-2 Level 3). Electrical Fast Transient - 1KV (IEC 1000-4-4 Level 3). RF Susceptibility - 150 KHz to 230 MHz @ 10V (IEC 1000-4-6 Level 3).
<b>POWER SUPPLY</b>	Battery Type - 3VDC Lithium, Replaceable. Operating Life - 4 years (when used with the display timeout feature). Low Battery Indication - 6 months before expiration.
<b>OPTIONAL EQUIPMENT</b>	Mounting brackets, with up to 100 feet of cable for remote installation. Also optional are scaled output (Model TR-29-2) or optional 4-20mA output (Model TR-28-2).
<b>SHIPPING WEIGHT</b>	2 pounds.
<b>ORDERING INFO</b>	Must be specified by the customer and includes: Serial number of meter unit is to be mounted on, indicator scale and units, and totalizer dial units.

## WATER SPECIALTIES

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