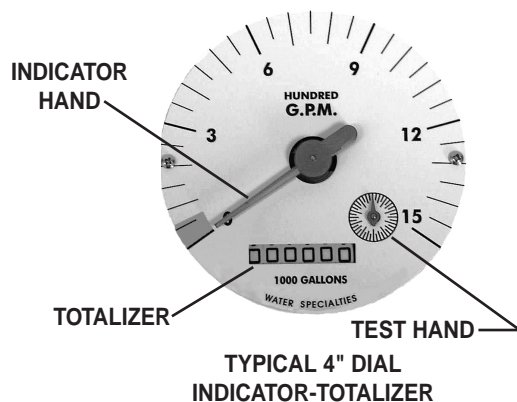




**MODEL TR06-1**  
 INDICATOR - TOTALIZER - TRANSMITTER  
 SOLID STATE CONSTRUCTION  
 PULSE RATE OUTPUT  
 3 - WIRE CIRCUIT



#### DESCRIPTION

**MODEL TR06-1 INDICATOR-TOTALIZER-TRANSMITTERS** provide an instantaneous flow rate indication, a totalization of flow volume and a pulse rate output signal proportional to the rate of flow when mounted on our propeller meters. The unit features a mechanically driven 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 by removing the standard totalizer assembly, and attaching the indicator-totalizer-transmitter to the meter head. The unit is furnished complete with all screws and o-rings necessary for installation.

**CONSTRUCTION** of the indicator-totalizer-transmitter features an o-ring sealed housing conforming to NEMA 4X standards.

**INDICATOR-TOTALIZER** is mechanically driven by the meter mechanism and features a full 4" diameter, 250 degree sweep dial with a six digit, straight reading type totalizer and sweep test hand. The indicator drive mechanism is temperature compensated so the indicator will be accurate at all points on the dial when operated between 32° and 140° F. The indicator dial can be furnished in GPM, CFS, MGD or any standard liquid measuring units with choice of standard totalizer measuring units. The bonnet, with padlock hasp, is o-ring sealed to the meter head.

**TRANSMITTER** utilizes an optic switch actuated by a slotted cam. The standard pulse rate output (open collector transistor output) is 10 pulses per second at the maximum flow range of the instrument that the transmitter is controlling. Other pulse rates available upon request. (1200 PPM max.) A three-lead shielded cable, 4 feet long, is furnished with each transmitter.

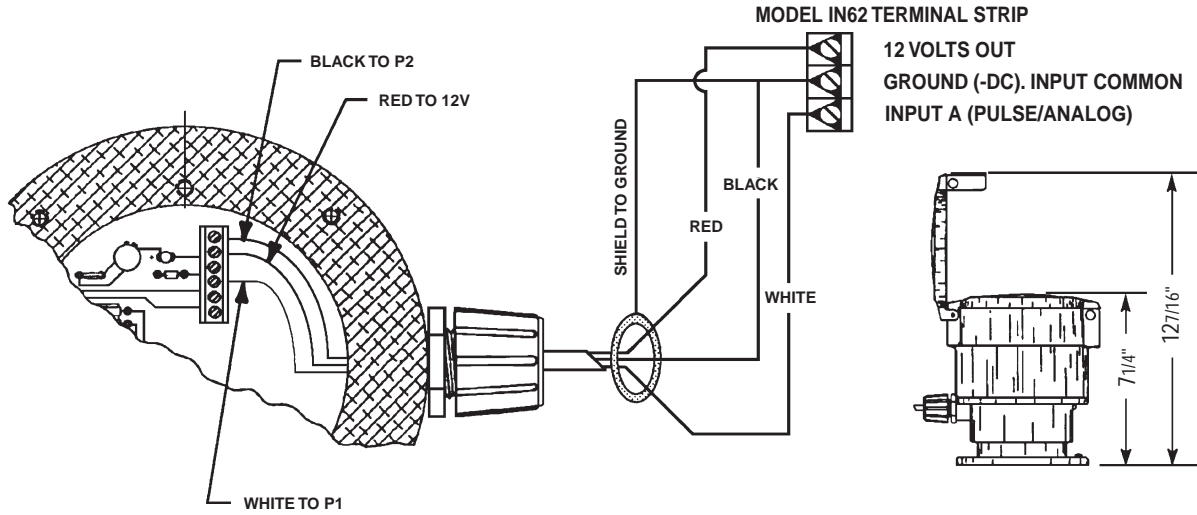
**O-RING SEALS** are used at all points where seals are required, making the indicator-totalizer-transmitter mechanism completely immune to any of the corrosive effects of atmospheric moisture or the liquids measured by the meter assembly.

#### SPECIFICATIONS

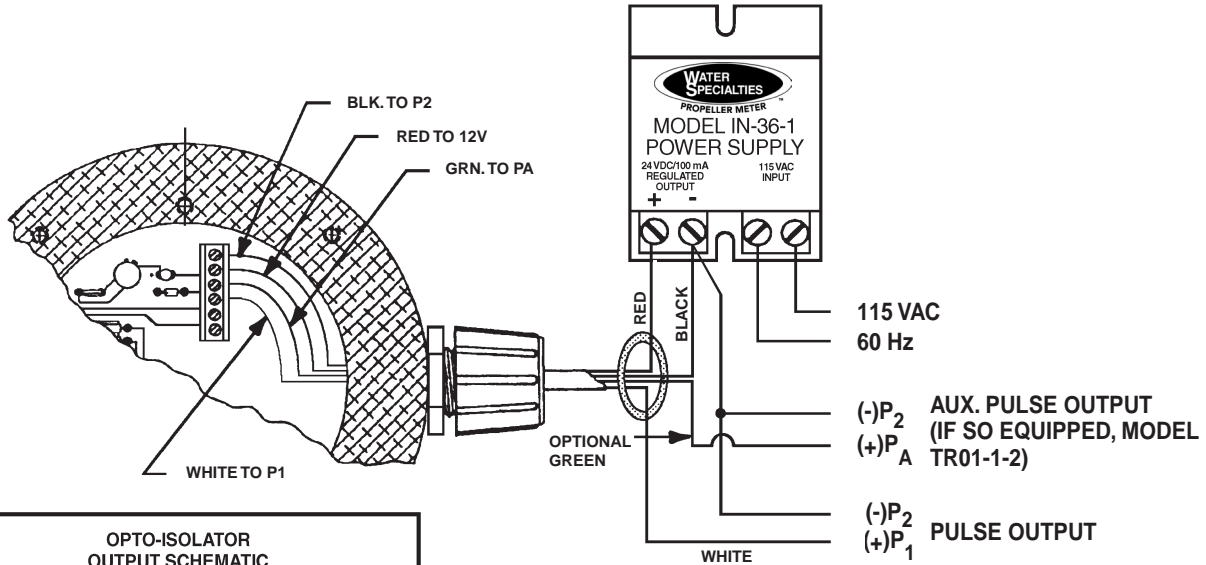
- ACCURACY** Pulse output: plus or minus 2.0% of actual flow within the range specified for each meter size.
- TEMPERATURE RANGE** 140° F Maximum. Consult factory for special construction for higher temperatures.
- POWER SUPPLY** Range: 10-30 VDC; nominal voltage is 24 VDC as supplied by our power supply, Model IN-36-1, available separately. Max. current consumption of transmitter is 30 mA.
- FLOW RANGE** Acceptable for each transmitter unit is the same as that for the meter to which the unit mounts.
- MATERIALS** Used in construction are chosen for their durability and immunity to the corrosive effects of atmospheric moisture and the liquids measured by the meter assembly.
- OUTPUT SIGNAL** The TR06-1 has four output configurations.
- 1.) npn, "open collector" type
  - 2.) 0-8VDC powered square wave
  - 3.) npn, "open collector" type with total input/output isolation.
  - 4.) 0-8VDC powered square wave with total input/output isolation.
- Open collector ratings:  
 Maximums are for signals between P2 and P1  
 Voltage: 18VDC  
 Current: 60 mA DC  
 Power dissipation: 100 mW
- Powered pulse ratings:  
 Output voltage amplitude = 8VDC (min.)  
 Output load = 1500W (min.)  
 For other voltage or load requirements, consult factory.
- The maximum recommended distance for transmission of an unamplified pulse signal is 5000 feet.
- SHIPPING WEIGHT** 4 pounds.
- OPTIONAL EQUIPMENT** A non-reversing ratchet, special outputs and dual output (consult factory for special application).
- ORDERING INFO** Must be specified by the customer and includes:  
 Serial number of meter unit is to be mounted  
 Maximum scale range required for pulse output  
 Change gears and type of dial on indicator-totalizer that is going to be replaced.

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**WIRING WHEN CONNECTED TO WATER SPECIALTIES INSTRUMENTS**



**OPTIONAL WIRING (USING SEPARATE POWER SUPPLY)**



NOTE: MAX. CURRENT CONSUMPTION OF TRANSMITTER IS 60 mA.

