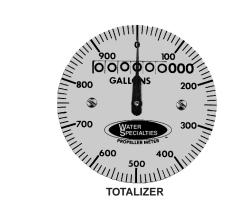
30116-19 Rev. 1.7/02-07



MODEL TR15 TOTALIZER - TRANSMITTER SOLID STATE CONSTRUCTION CURRENT OUTPUT - PULSE RATE OUTPUT (TWO) 2-WIRE CIRCUITS

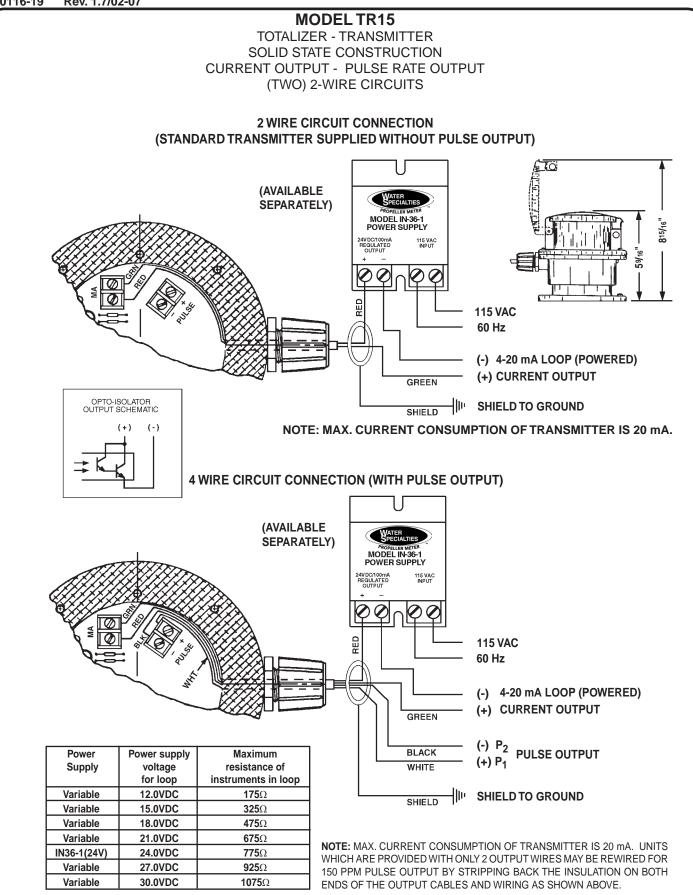




DESCRIPTION

- **MODEL TR15 TOTALIZER-TRANSMITTERS** provide a totalization of flow volume and both a 4-20 mA current signal and a pulse rate output signal proportional to the rate of flow when mounted on our meters. The unit features a magnetically driven 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 totalizer-transmitter to the meter head. The unit is furnished complete with all screws and o-rings necessary for installation.
- **CONSTRUCTION** of the totalizer-transmitter features an o-ring sealed housing conforming to NEMA 4X standards.
- **TOTALIZER** is o-ring sealed and magnetically coupled with the driving mechanism, and features a six digit totalizer with a full 3" diameter, 100 division, center sweep dial that permits extremely accurate readings for timing purposes in determining flow rates. The totalizer dial can be furnished in gallons, cubic feet, acre feet, or any standard liquid measuring units. The bonnet, with padlock hasp, can be positioned in four different directions for the easiest possible reading when the meters are mounted in unusual positions.
- **TRANSMITTER** utilizes an optic switch (open collector transistor output). The standard 4-20 mA current output gives 4 mA output at zero flow and 20 mA output at maximum scale range. The standard pulse rate output (open collector transistor output) is 150 pulses per minute at the maximum flow range of the instrument that the transmitter is controlling. Other pulse rates available upon request in 50 PPM increments. (600 PPM max.) A four-lead shielded cable, four feet long, is furnished with each transmitter equipped with pulse output. A two-lead shielded cable, four feet long, is furnished if 4-20 mA only is ordered. The pulse output wiring will be provided only if requested (see ordering info).
- O-RING SEALS are used at all points where seals are required, making the totalizer-transmitter mechanism completely immune to any of the corrosive effects of atmospheric moisture or the liquids measured by the meter assembly.

	SPECIFICATIONS
ACCURACY	Current output: plus or minus .5% of full scale of the instrument the transmitter is controlling. 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	24 VDC (as supplied by our power supply Model
	IN-36-1, available separately) wired in series with mA output and instrument. The mA output must be powered in order to use the pulse output. Note: Max. current consumption of transmitter is 20 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	Current signal: 4-20 mA (with loop impedance of 175Ω to 1075Ω . See chart on back), true two wire with external power supply. Pulse rate: 150
SHIPPING WEIGHT OPTIONAL	PPM. Other pulse rates available upon request. (150 PPM min. to 600 PPM max. in 50 PPM incre- ments. Consult factory for other pulse rates.) The maximum recommended distance for pulse output transmission is 5000 ft. Note: Unit utilizes an open collector transistor output. 35 VDC reverse voltage polarity protection. The pulse output wiring will be provided only if requested (see ordering info). Pulse Output Ratings Maximums are for signals between P2 and P1 Voltage: 18VDC Current: 60 mA DC Power dissipation: 100 mW 4 pounds A non-reversing ratchet, special outputs (consult
EQUIPMENT	factory for special applications).
ORDERING INFO	Must be specified by the customer and includes: Serial number of meter unit is to be mounted Maximum scale range required for current and pulse output Change gears and type of dial on totalizer that is going to be replaced. Pulse output is available on all units, but will be wired only if requested to eliminate possible improper hookups or damage to the circuit card.



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