

Digital Register for T3000

Sizes 1 1/2" - 12"



Materials

Pulser lens: Glass or Plastic
 Pulse Element: 1/4 W Reed Switch, 100 Ohm Resistor (max switching load of switch and resistor)
 Gland/Cable: 9-10 ft. 3-Wire standard with glass lens for RF capability.
 No cable supplied with plastic lens.

| Contact Closure | (Cont/USG) | (Cont/Cu ft.) |
|-----------------|------------|---------------|
| 1-1/2" | 1/10 | 1/1 |
| 2" | 1/10 | 1/1 |
| 3" | 1/100 | 1/10 |
| 4" | 1/100 | 1/10 |
| 6" | 1/100 | 1/100 |
| 8" | 1/100 | 1/100 |
| 10" | 1/1000 | 1/100 |
| 12" | 1/1000 | 1/100 |

Registration: 1 Revolution of Sweep Hand

| | USG | Cu. ft. |
|--------|-------|---------|
| 1-1/2" | 100 | 10 |
| 2" | 100 | 10 |
| 3" | 1000* | 100* |
| 4" | 1000* | 100* |
| 6" | 1000 | 1000* |
| 8" | 1000 | 1000* |
| 10" | 10000 | 1000 |
| 12" | 10000 | 1000 |

Electrical Ratings

Maximum Voltage: 50 VDC
 Maximum Current: 50 mA
 Duty Cycle: 50±15% (Closed/Open)

Note: These units are NOT repairable.

* These sweep hand revolution registration may differ between digital register, encoder and direct read registers. Contact close rates are the same as the old style, large can digital read.



The Digital Register may be used with Elster AMCO Water's T3000 Turbine cold water meters, sizes 1-1/2" to 12". This register provides a volt-free reed switch closure for a specific volume of metered water (see contact closure rates). The actual pulse resolution and units of registration are printed on the dial plate.

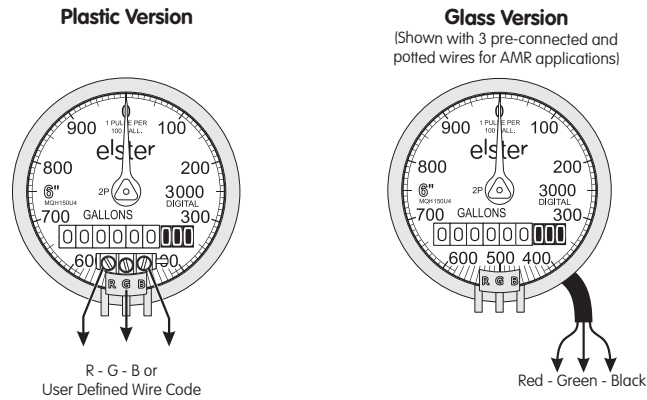
Elster AMCO Water's Digital Register is available with either a plastic or glass lens and can be ordered as a retrofit to an existing T3000 meter. T3000 meters up to 8" size with larger register cans can accept factory tested unitized measuring elements that accept the small can digital register, or alternatively use a Missouri retrofit kit to mount on existing measuring elements of all sizes to 12". Glass lens units are suited to long-term submersion (pit) applications and are supplied with 25 feet of 3-wire cable or can be factory potted to AMR/AMI endpoint or pit pads. Electrical connections are not polarity sensitive and are to be made using two wires connected in series to the internal reed switch and a 100 Ohm resistor (see schematic on reverse). This register requires power from an external source and is suitable for use with remote counters.

The Missouri retrofit kit can be added to allow use of either digital register. The plastic lens digital register adds 0.75" to the height of the meter.

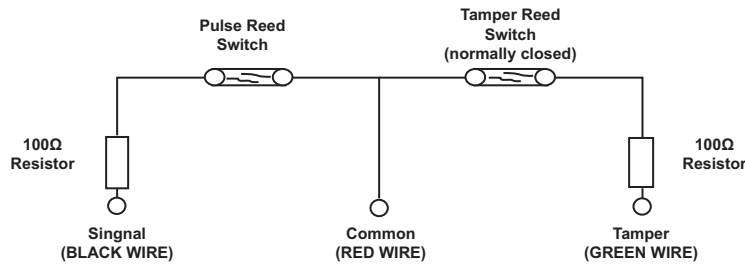


Connections

The Digital Register can be connected via two terminals, as follows:



A maximum cable length of 50 feet is recommended, however cable lengths up to 500 feet are possible if shielded cabling is routed away from electromagnetic sources. Cable sizes from 24-32 AWG are acceptable. Switch operation is not polarity sensitive, however, the use of tamper detection will require specific wiring.



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