

Specification Sheet

Digital Register for C700



Description

The Digital Register may be used with AMCO Water Metering Systems' C700 positive displacement cold water meters, sizes 5/8" - 2". This register provides a volt-free reed switch closure for a specific volume of metered water (see specifications). The actual pulse resolution and units of registration are printed on the dial plate.

AMCO's Digital Register is available with either a plastic or glass lens register and can be ordered as part of the meter or as a retrofit to an existing C700 meter. Glass lens units are suited to long-term submersion (pit) applications and are supplied with 9-10 feet of 2-wire cable. 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). The pulse unit requires power from an external source and is suitable for use with remote counters.

When added to a standard C700 water meter, the Digital Register adds 2.5" to the height of the meter. The glass version of the Digital Register adds 5.5 ounces to the weight of a C700 and the plastic version add 0.5 ounces.



Sizes 5/8" - 2"

Specifications

Materials

Pulser can: Copper Alloy, 90%
 Pulser lens: Glass or Plastic
 Pulse Element: 10W Reed Switch, 100 Ohm 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.)	(Cont/litres)
5/8"	1/1	1/0.1	1/1 or 1/10
3/4"	1/1	1/0.1	1/1 or 1/10
1"	1/1	1/0.1	1/10
1 1/2"	1/10	1/1	1/10
2"	1/10	1/1	1/10 or 1/100

Registration: 1 Revolution of Sweep Hand

	USG	CuFt	Litres
5/8"	10	1	10 or 100
3/4"	10	1	10 or 100
1"	10	1	100
1 1/2"	100	10	100
2"	100	10	100 or 1000

Capacity (millions)

	USG	CuFt	Litres
5/8"	10	1	10 or 100
3/4"	10	1	10 or 100
1"	10	1	100
1 1/2"	100	10	100
2"	100	10	100 or 1000

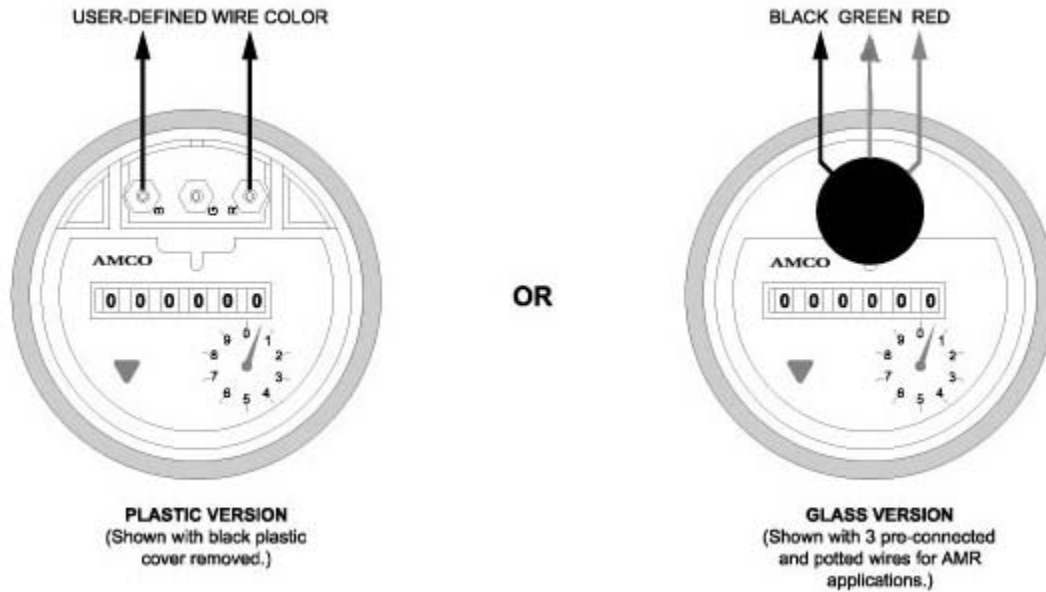
Electrical Ratings

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

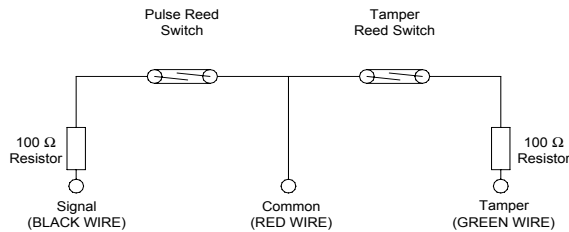
Note: These units are NOT repairable.
 These units are for bronze meters only.

Connections

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



A maximum run length of 50 feet is recommended, however runs up to 500 feet are possible if shielded cabling is routed away from electromagnetic sources. Cable sizes from 24-32 AWG are acceptable. Wiring is not polarity sensitive (see schematic below).



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