

C700 Cold Water Meter Digital Register Specifications

Third-Party Products
From The Manufacturer of E-Mon D-Mon



Description

The Digital Register may be used with 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.

The 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 3-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.



Digital Register for C700

Indoor Register Included with Models

C75812	C70010	C70021
C75834	C70150	
C73427	C70151	
C73429	C70020	

Note: Meters supplied as indoor version with pulse output.

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.

DISCLAIMER

E-Mon does not manufacture the products described on this page. We do not provide a warranty with respect to products we do not manufacture, and Customer must rely on the representations and warranties, if any, provided by the manufacturer of such product. We reserve the right to make changes to our products or to discontinue any product or service without notice.

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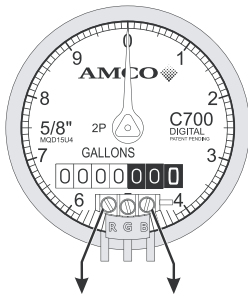
From The Manufacturer of E-Mon D-Mon

Connections

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

PLASTIC VERSION

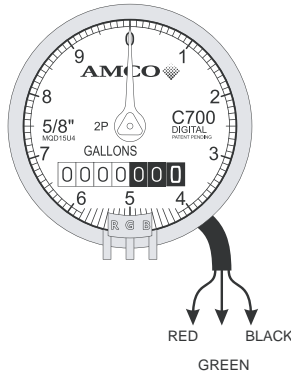
(Shown with black plastic cover removed)



User-Defined Wire Color

GLASS VERSION

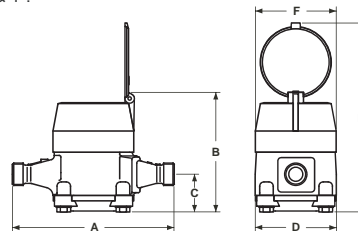
(Shown with 3 pre-connected and potted wires for AMR applications)



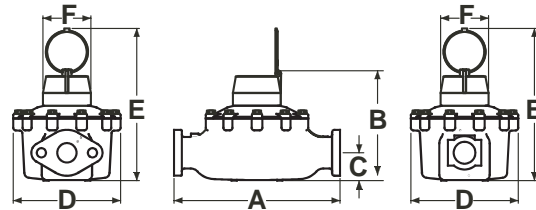
C700 Dimensions and Net Weights

Size	Dimensions (inches)					Weight (lbs.)	Bolt Hole Dia.
	A	B	C	D	E		
5/8" x 1/2"	7 1/2	5 1/2	1 1/2	4	9 1/4	3 3/4	4 1/4
5/8" x 3/4"	7 1/2	5 1/2	1 1/2	4	9 1/4	3 3/4	4 1/4
3/4" x 3/4"S	7 1/2	6 3/16	2 1/16	3 7/8	10	3 3/4	5
3/4" x 3/4"	9	6 3/16	2 1/16	3 7/8	10	3 3/4	5 1/8
3/4" x 1"	9	6 3/16	2 1/16	3 7/8	10	3 3/4	5 1/8
1"	10 3/4	6 5/8	2 1/8	6 15/16	7 1/8	3 3/4	10 1/2
1 1/2" Oval	13	8 7/8	2 1/8	8 1/2	9 3/8	3 3/4	24
1 1/2" Threaded	12 5/8	8 7/8	2 1/8	7 1/2	9 3/8	3 3/4	22
2" Oval	17	8 1/8	1 3/4	8 3/4	8 5/8	3 3/4	39
2" Threaded	15 1/4	8 1/8	2 15/16	8 3/4	8 5/8	3 3/4	36

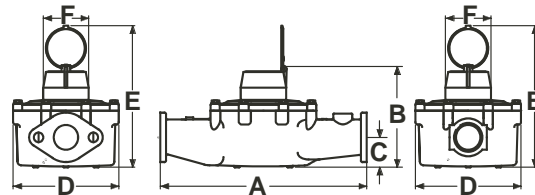
5/8", 3/4" & 1":



1 1/2":



2":



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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