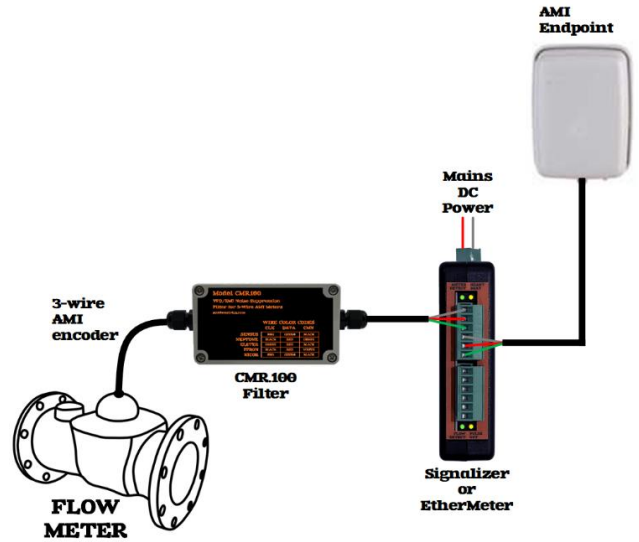


EMI Filter for AMI Water Meters

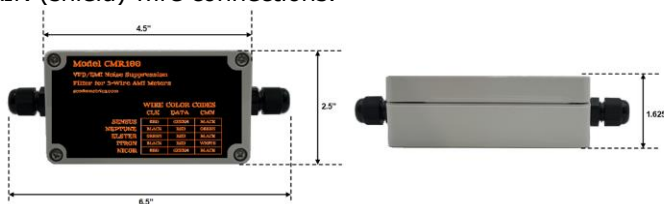
Model CMR.100



Attenuates Common-Mode Noise Induced by VFD's and Other Sources of Electromagnetic Interference in the Vicinity of the Flow Meter.

The model **CMR.100** is designed to attenuate common-mode noise within 3-wire, encoder-type meter cables. Such interference is often induced by VFD's and other sources of electromagnetic interference in the vicinity of installed water meters – especially at pumping stations, water plants, and well sites.

The **CMR.100** features a 3-position METER terminal block, where the 3-wire encoded cable from the meter should be connected, and a 3-position AMI terminal block, where the 3-wire encoded cable from the Signalizer/EtherMeter should be connected. Terminals are also provided for DRAIN (shield) wire connections.



Engineering Specifications -

Dimensions:	6.5" x 2.5" x 1.625"
Weight:	8.0 Ounces
Supply Voltage:	None (Passive)
Current Rating:	1A per Line
Voltage Rating:	250V
Compatible Encoder Protocols:	Neptune, Sensus, Elster K-Frame
Temperature:	-40C to 85C (-40°F to 185°F)
Relative Humidity:	5% to 95%, Non-Condensing
Enclosure Rating:	Built to IP62 Specifications, Not Rated for Submersion Use
Manufacturing Location:	USA
Environmental:	ROHS-Compliant, Lead-Free
Meter Interface:	AWWA C707-05
Warranty:	2 Years (see www.scadаметrics.com for details)

Wiring Instructions:

The CMR.100 should ideally be installed in close proximity to the water meter register. However please note that the CMR.100 is not rated for submersion.

On the **METER** side, connect the 3-wire cable to the Water Meter, as follows:

	SENSUS OR NICOR CABLE	NEPTUNE OR ITRON	ELSTER / HONEYWELL
CLK	RED	BLACK	GREEN/WHITE
DATA	GREEN/WHITE	RED	RED
CMN	BLACK	GREEN/WHITE	BLACK

On the **AMI** side, connect the 3-wire cable to the Signalizer/EtherMeter, as follows:

	SENSUS OR NICOR CABLE	NEPTUNE OR ITRON	ELSTER / HONEYWELL
CLK	RED	BLACK	GREEN/WHITE
DATA	GREEN/WHITE	RED	RED
CMN	BLACK	GREEN/WHITE	BLACK

If shielded cable is utilized (recommended), then connect the incoming and outgoing drain (shield) wires to the denoted terminal blocks. Molded cable options are also available (Nicor or Itron).

Cable Recommendation:

- 22AWG, 3-Cond, Stranded, Shielded, Jacketed
- Red, Black, White (or Green)
- General/Carol Cable C2526A
- Belden 8771

Are you interested in how SCADAmetrics technology can increase the reliability of your SCADA/meter signaling systems? Give us a call! We'll be glad to discuss the details!

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