AMI Duplexer for SCADA Systems™

ETHERMETER

AMI

AMI DUPLEXER

MADE IN USA

RoHS Compliant

AWWA C707-05 COMPLIANT

2 YEAR WARRANTY
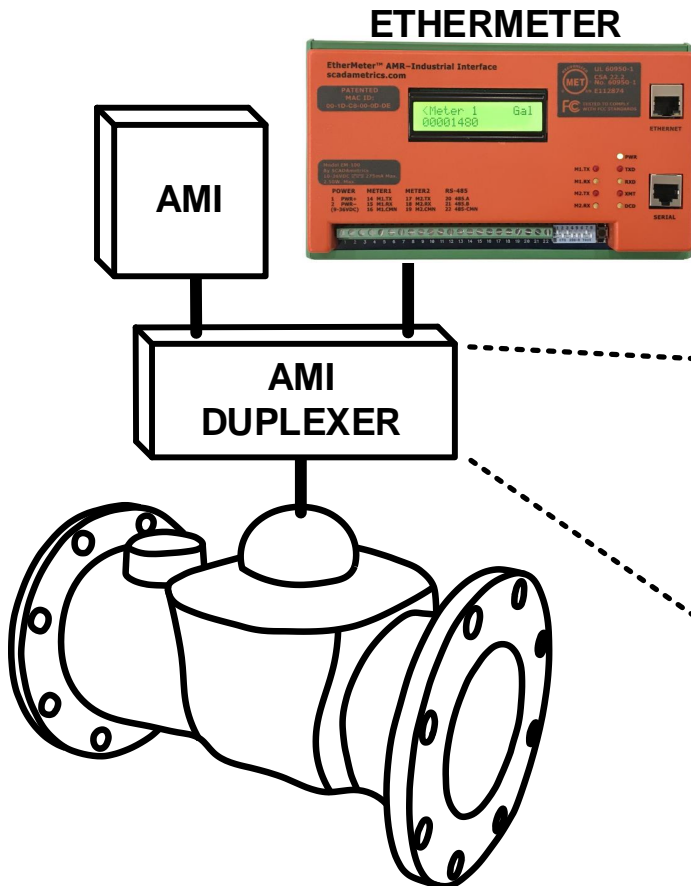
Revenue-Grade Water Meter Accuracy: Now Available to the Utility's Billing Department and SCADA System Simultaneously…

You have an AMI-capable water meter, and you are quite satisfied with its ability to transmit revenue-grade readings into your AMI system – but in certain situations, wouldn't it be useful if you could collect those same revenue-grade readings into your SCADA system, as well?

The **Model SDA "AMI Duplexer for SCADA Systems"** was designed for that exact purpose!

The **AMI Duplexer** enables the splitting of AMI signals from every major AMI-capable water meter to every major AMI/AMR/Visual endpoint in the industry – including those from **Sensus**, **Neptune**, **Metron-Farnier**, **Kemp-Meek**, **Aclara**, **Mueller**, **Kamstrup**, **Badger**, **Master Meter**, **RG3**, **Zenner**, **Itron**, **Elster-AMCO**, **McCrometer**, and many others!

The **AMI Duplexer** maintains all the popular functionality contained within our retired **Radio-Read Filter** which led to its widespread acceptance at major water utilities throughout the United States and Canada – PLUS the additions of an attractive, compact din-rail case and a convenient removable terminal block.

It is important to note that the **SDA "AMI Duplexer for SCADA Systems"** is designed to **only** split a meter signal to a SCADAmetrics EtherMeter plus a third-party AMI device. If signal splitting to strictly non-EtherMeter devices is desired, then the **UDA "Universal Duplexer for AMI"** is the recommended signal splitter.

Are you interested in how SCADAmetrics technology can help you to eliminate pulse-counting errors and split a water meter's encoder signal to both your AMI and SCADA systems? Give us a call! We'll be glad to discuss the details!

SCADAmetrics
scadametrics.com
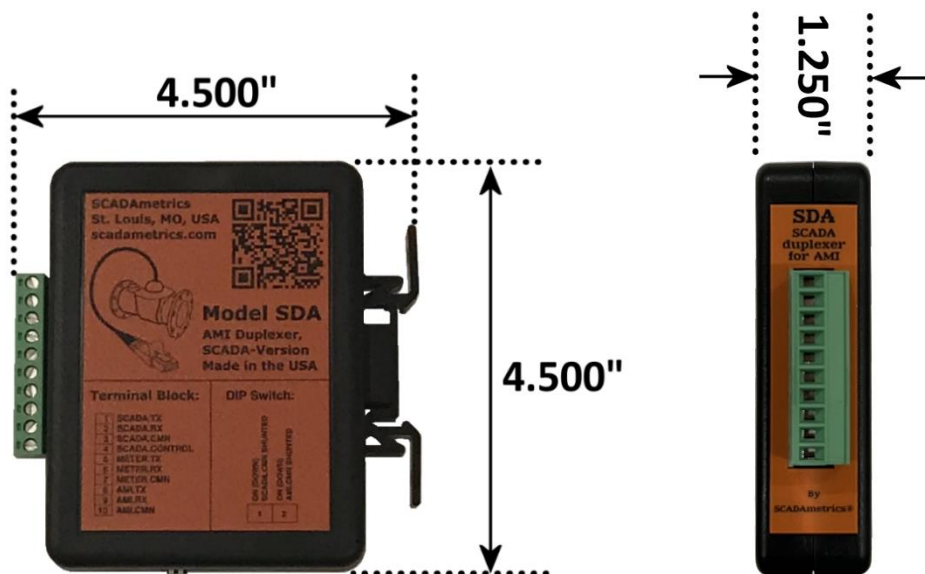**Wildwood, Missouri USA**
636.405.7101

Terminal Block Hookup:

Terminal	Function	Sensus Color (Badger, Metron-Farnier, Master Meter, Kamstrup, Mueller, Zenner, RG3, Aclara)	Neptune Color	Elster Color
1	EtherMeter/SCADA Clock	Red	Black	Wht|Grn
2	EtherMeter/SCADA Data	Green|White	Red	Red
3	EtherMeter/SCADA Ground	Black	Green	Black
4	EtherMeter/SCADA Control	Blue*	Blue*	Blue*
5	Water Meter Clock	Red	Black	Wht|Grn
6	Water Meter Data	Green|White	Red	Red
7	Water Meter Ground	Black	Green	Black
8	AMI Clock	Red	Black	Wht|Grn
9	AMI Data	Green|White	Red	Red
10	AMI Ground	Black	Green	Black

*Blue is Suggested, But Any Color Wire Can Be Used.

Specifications:
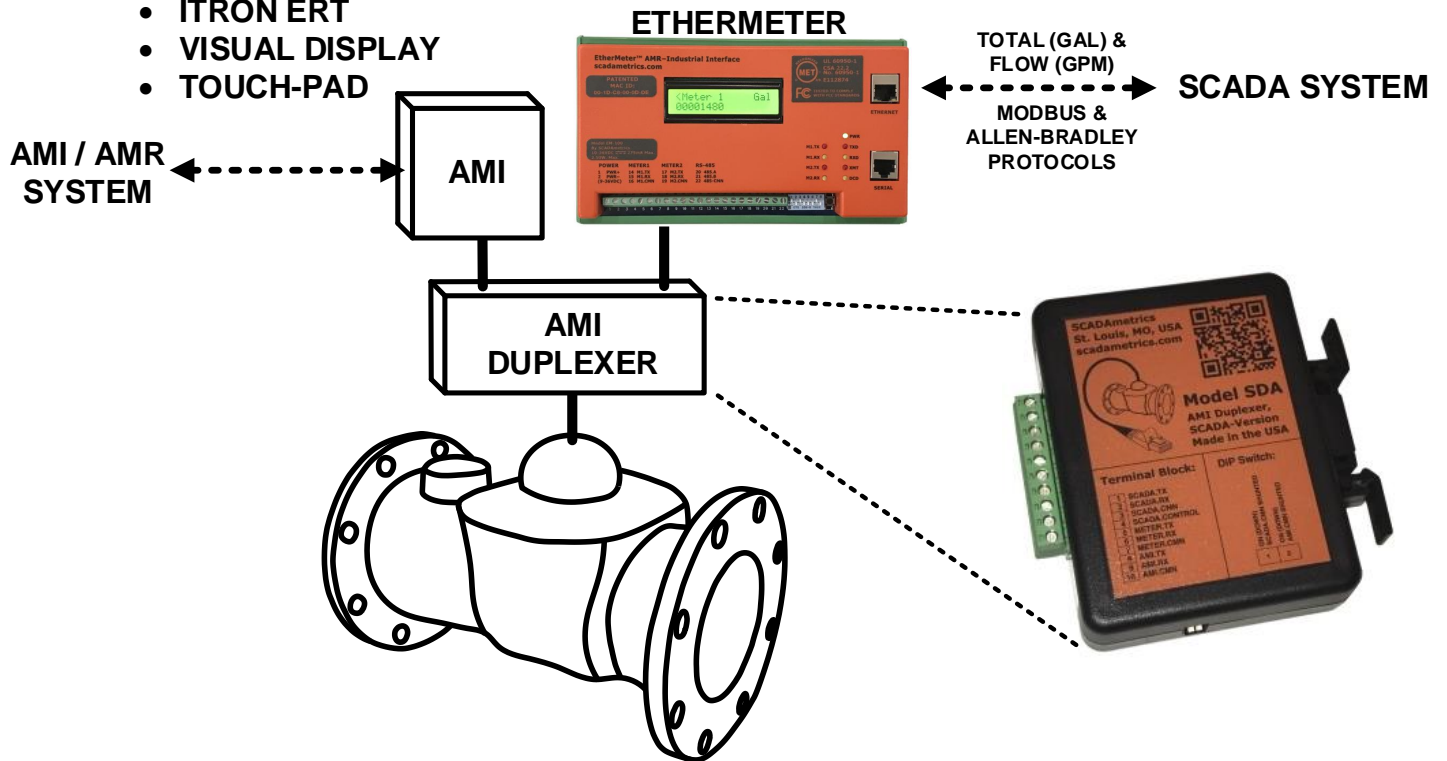
Dimensions: 4.50" x 4.50" x 1.25"
Weight: 5.6 Ounces
Temperature: -40C to 85C (-40°F to 185°F)
Relative Humidity: 5% to 95%, Non-Condensing
Enclosure Rating: NEMA-1, Not Rated for Outdoor Use
Environmental: ROHS-Compliant, Lead-Free
Meter Interface: AWWA C707-05
External Power/Battery: None Required
Manufacturing Location: USA
Warranty: 2 Years (see www.scadametrics.com for details)
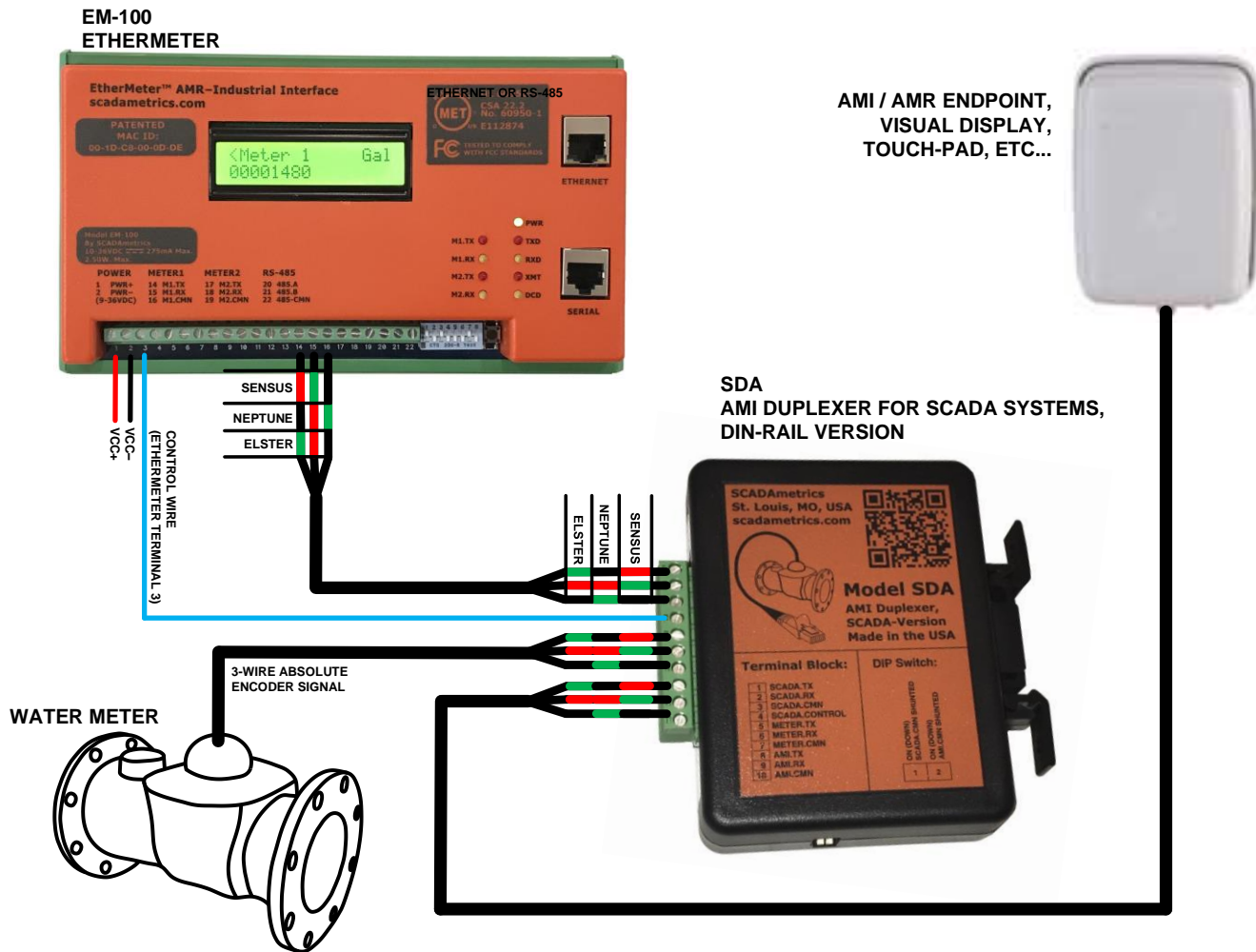
Engineering Dimensions:

Operational Illustration:

- **SENSUS SMART POINT**
- **NEPTUNE R900**
- **BADGER ORION**
- **MASTER METER XTR**
- **METRON-FARNIER M2W**
- **ACLARA MTU**
- **ITRON ERT**
- **VISUAL DISPLAY**
- **TOUCH-PAD**

ETHERMETER

**TOTAL (GAL) &
FLOW (GPM)**

SCADA SYSTEM

**MODBUS &
ALLEN-BRADLEY
PROTOCOLS**

**AMI / AMR
SYSTEM**

AMI

**AMI
DUPLEXER**

SCADAmetrics
St. Louis, MO, USA
scadametrics.com

Model SDA
AMI Duplexer,
SCADA-Version
Made in the USA

Model SDA
AMI Duplexer for SCADA Systems, Din-Rail Version

EM-100 ETHERMETER

AMI / AMR ENDPOINT, VISUAL DISPLAY, TOUCH-PAD, ETC...

SDA AMI DUPLEXER FOR SCADA SYSTEMS, DIN-RAIL VERSION

SENSUS
NEPTUNE
ELSTER

VCC−
VCC+

CONTROL WIRE (ETHERMETER TERMINAL 3)

ELSTER
NEPTUNE
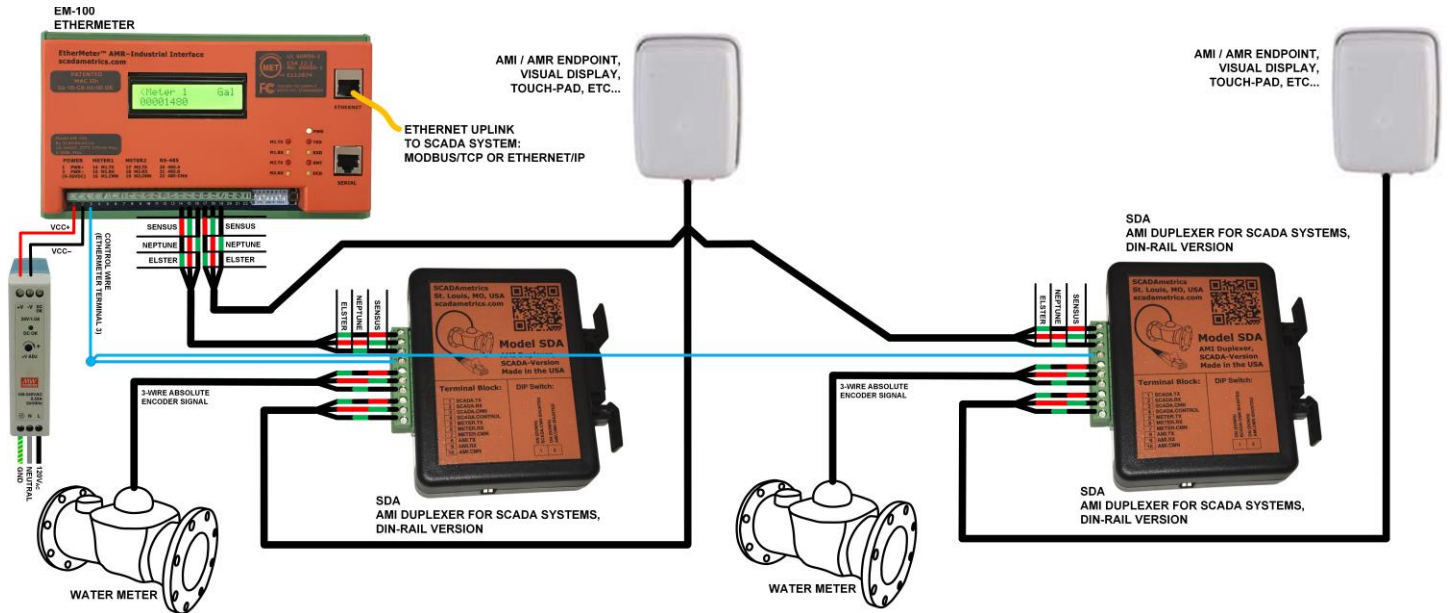SENSUS

3-WIRE ABSOLUTE ENCODER SIGNAL

WATER METER

Notes:

1. With the exceptions of Neptune Technology Group and Elster-AMCO (Honeywell), most meter manufacturers follow the Sensus wire color-coding scheme.

2. SDA Meter Terminal Block Hookup (Terminals 5,6,7): Apply the color-coding that pertains to the manufacturer of the Water Meter.

3. SDA AMI/AMR Terminal Block Hookup (Terminals 8,9,10): Apply the color-coding that pertains to the manufacturer of the AMI/AMR Endpoint.

4. SDA SCADA Terminal Block Hookup (Terminals 1,2,3): Apply the color-coding that pertains to the manufacturer of the Water Meter.

5. SDA Control Terminal Block Hookup (Terminal 4): Connect this terminal to EtherMeter.Terminal.3

6. EtherMeter Terminal Block Hookup: When using channel.1, connect to Terminals 14,15,16. When using channel.2, connect to Terminals 17,18,19.

7. Alternative color-coding: manufacturers occasionally substitute a WHITE wire for a GREEN wire.

8. If the EtherMeter experiences reading faults to the flow meter, via the SDA, then connect all three (3) meter signal common (CMN) wires together at SDA Terminal.3

Model SDA
AMI Duplexer for SCADA Systems, Din-Rail Version

Notes:

1. With the exceptions of Neptune Technology Group and Elster-AMCO (Honeywell), most meter manufacturers follow the Sensus wire color-coding scheme.

2. SDA Meter Terminal Block Hookup (Terminals 5,6,7): Apply the color-coding that pertains to the manufacturer of the Water Meter.

3. SDA AMI/AMR Terminal Block Hookup (Terminals 8,9,10): Apply the color-coding that pertains to the manufacturer of the AMI/AMR Endpoint.

4. SDA SCADA Terminal Block Hookup (Terminals 1,2,3): Apply the color-coding that pertains to the manufacturer of the Water Meter.

5. SDA Control Terminal Block Hookup (Terminal 4): Connect this terminal to EtherMeter.Terminal.3

6. EtherMeter Terminal Block Hookup: When using channel.1, connect to Terminals 14,15,16. When using channel.2, connect to Terminals 17,18,19.

7. Alternative color-coding: manufacturers occasionally substitute a WHITE wire for a GREEN wire.

8. If the EtherMeter experiences reading faults to the flow meter, via the SDA, then connect all three (3) meter signal common (CMN) wires together at SDA Terminal.3