Universal Duplexer™ For AMI Systems

Model UDA - US Patent No. 11,041,738

2 YEAR WARRANTY

MADE IN USA
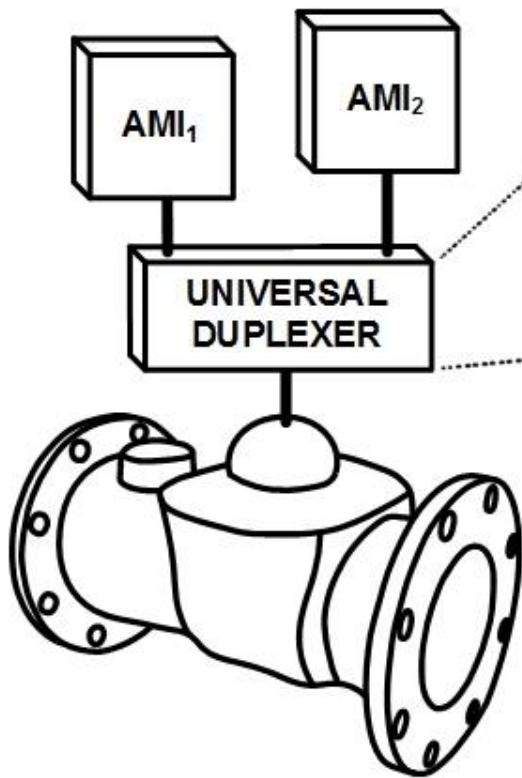
RoHS Compliant

AWWA C707-05 COMPLIANT

Revenue-Grade Flow Metering Accuracy: Now Available to the Water Utility and Bulk Water Customer Simultaneously...

You have an AMI-capable water meter, and you are quite satisfied with its ability to transmit revenue-grade readings into your system – but in certain situations, wouldn't it be useful if two or more systems were able to collect the reading from the water meter?

The **Model UDA "Universal Duplexer for AMI Systems"** was designed for that exact purpose!

The **Universal 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!
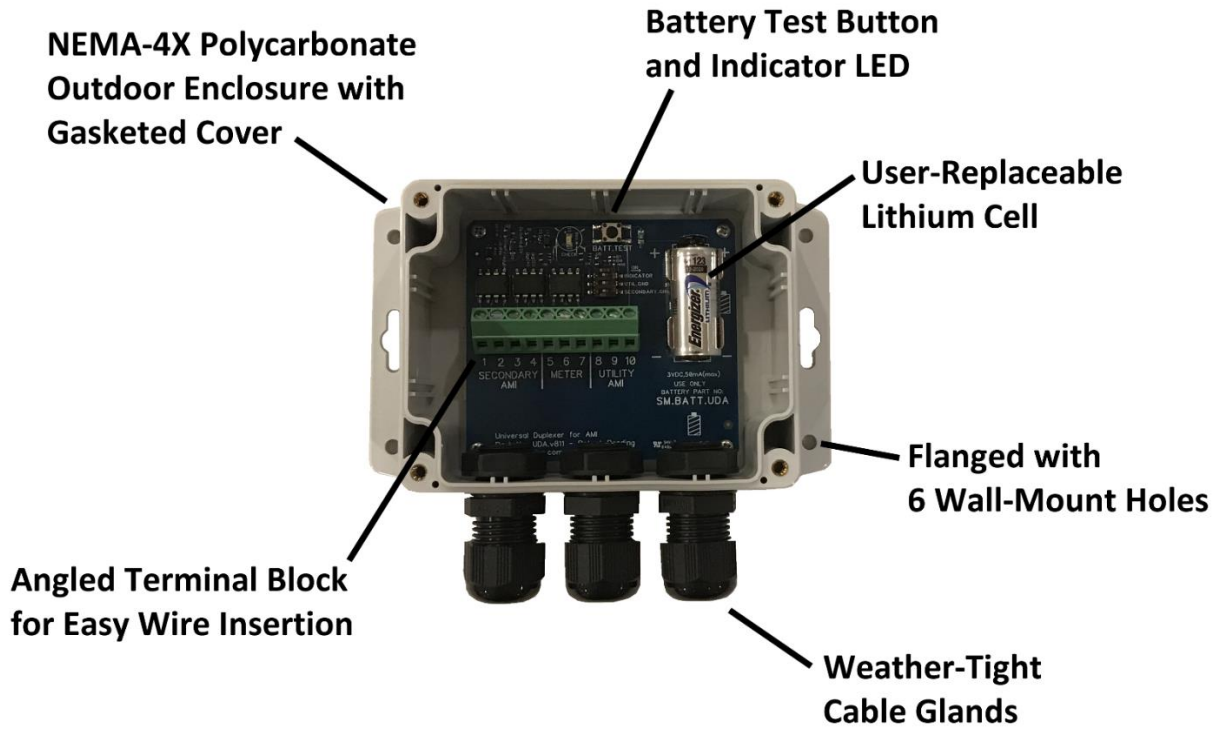
The Universal Duplexer maintains all the popular functionality contained within our retired **Radio-Read Filter** device which led to its widespread acceptance at major water utilities throughout the United States and Canada. However, the addition of active electronic circuitry powered by a 10-year*, user-replaceable lithium cell provides vastly expanded meter compatibility.

The **Universal Duplexer** is housed within a weather-resistant, polycarbonate NEMA-4X enclosure suitable for outdoor installations. The UDA is **not** rated for submersion.

When the water meter is owned by the utility, it is important to note that permission is required before connecting the water meter signal wires to the Universal Duplexer. For more information about permitting, please contact your water utility's engineering department.

Are you interested in how SCADAmetrics technology can help you split a water meter AMI signal to two or more meter-reading systems? Give us a call! We'll be glad to discuss the details!

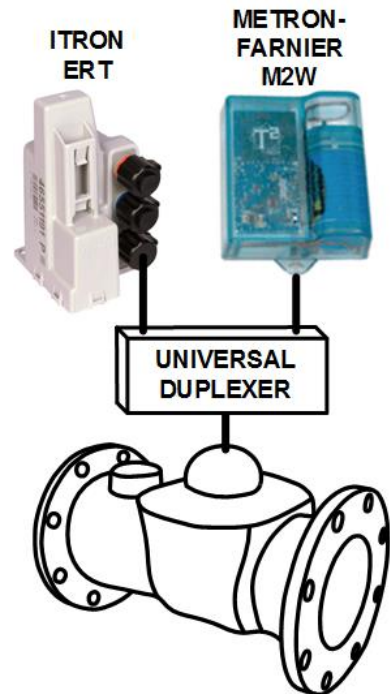**SCADAmetrics**
scadametrics.com
Wildwood, Missouri USA
636.405.7101

NEMA-4X Polycarbonate Outdoor Enclosure with Gasketed Cover

Battery Test Button and Indicator LED

User-Replaceable Lithium Cell

Flanged with 6 Wall-Mount Holes

Angled Terminal Block for Easy Wire Insertion

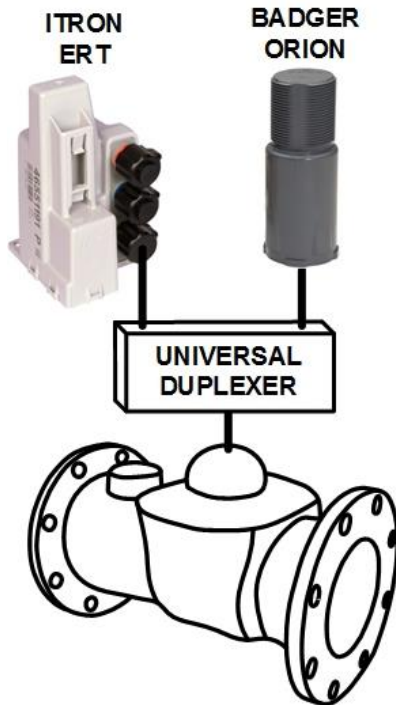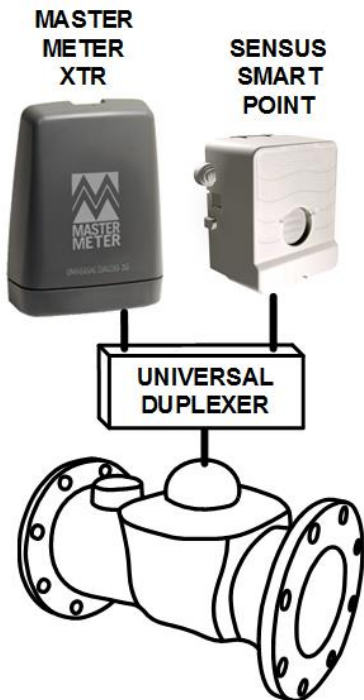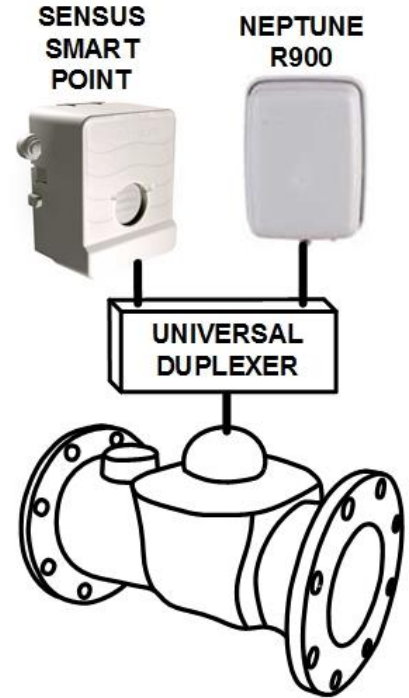**Weather-Tight Cable Glands**

Terminal Block Hookup –

Terminal	Function	Sensus Color (Badger, Metron-Farnier, Master Meter, Kamstrup, Mueller, Zenner, RG3)	Neptune Color	Elster Color	Itron Color
1	Secondary AMI Clock	Red	Black	Wht|Grn	Black
2	Secondary AMI Data	Green|Wht	Red	Red	Red
3	Secondary AMI Ground	Black	Green	Black	Wht|Shield
4	Ext Ctrl (EtherMeter Apps Only)	--	--	--	--
5	Meter Clock	Red	Black	Wht|Grn	Black
6	Meter Data	Green|Wht	Red	Red	Red
7	Meter Ground	Black	Green	Black	Wht|Shield
8	Utility AMI Clock	Red	Black	Wht|Grn	Black
9	Utility AMI Data	Green|Wht	Red	Red	Red
10	Utility AMI Ground	Black	Green	Black	Wht|Shield

Specifications –
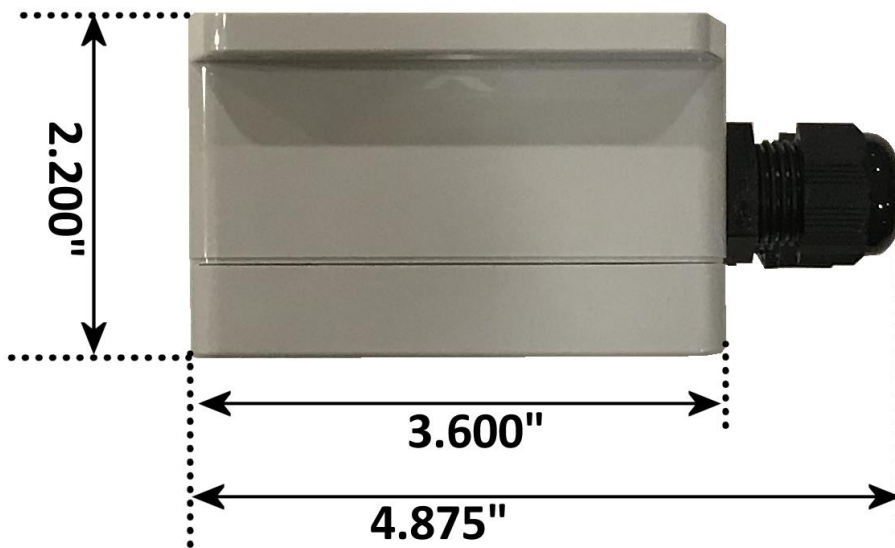
Dimensions:	5.75" x 4.875" x 2.25"
Weight:	12 Ounces
Temperature:	-40C to 60C (-40°F to 140°F)
Relative Humidity:	5% to 95%, Non-Condensing
Enclosure Rating:	NEMA-4X, Not Rated for Submersion
Environmental:	ROHS-Compliant, Lead-Free
Meter Interface:	AWWA C707-05
Manufacturing Location:	USA
Warranty:	2 Years (see www.scadametrics.com for details)
Battery:	Energizer 123 (EL123AP), User-Replaceable
*Battery Life:	Lesser of 10 Years or 350,000 Meter Reads on the Secondary AMI Port

A Small Sampling of the <u>Hundreds</u> of Possible Applications:

SENSUS SMART POINT — KEMP-MEEK VISULINK — UNIVERSAL DUPLEXER

Please see our Model TMD TheMeterDisplay™ for a Better Solution – An Integrated Display and Duplexer in One!

SENSUS SMART POINT — TOUCH PAD — UNIVERSAL DUPLEXER

SENSUS SMART POINT — NEPTUNE R900 — UNIVERSAL DUPLEXER

MASTER METER XTR — SENSUS SMART POINT — UNIVERSAL DUPLEXER

ITRON ERT — BADGER ORION — UNIVERSAL DUPLEXER

ITRON ERT — METRON-FARNIER M2W — UNIVERSAL DUPLEXER

... And Many, Many Others!!!

Engineering Dimensions (Inches) –

5.700"

2.200"

3.600"

4.875"

Model UDA
Universal Duplexer for AMI/AMR Systems

NOT RATED FOR SUBMERSION!

Sensus
Neptune
Elster
Itron

3VDC,50mA(max)
USE ONLY
BATTERY PART NO:
SM.BATT.UDA

To Secondary AMI/AMR

To Water Meter

To Utility AMI/AMR
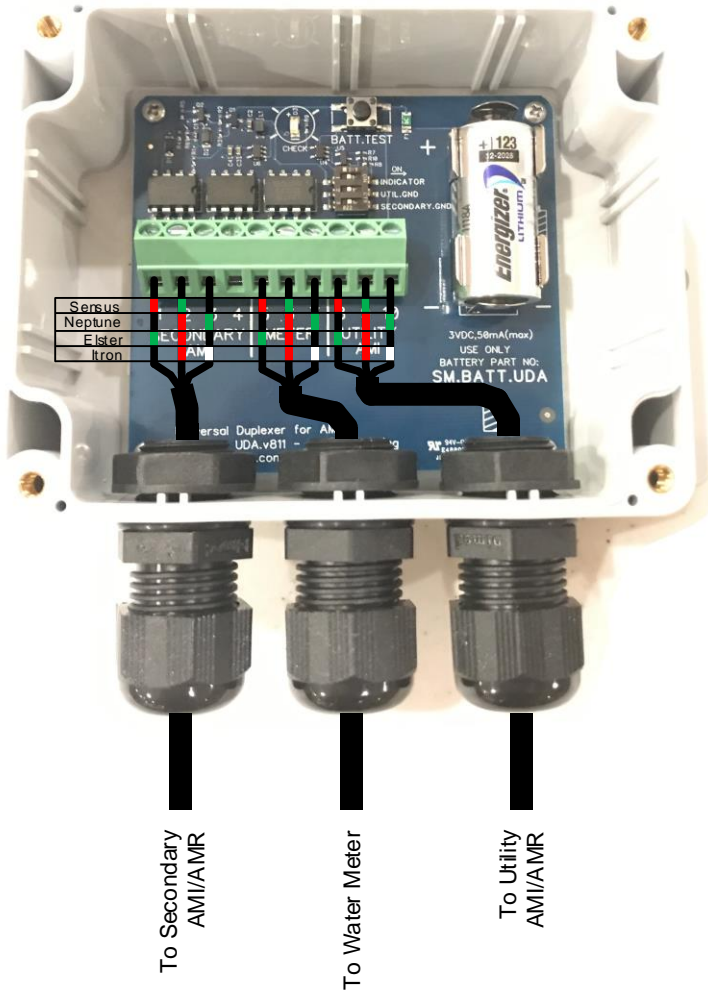
Notes:

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

2. In certain instances, Elster-AMCO (Honeywell) and Neptune meters are configured with Sensus-type color-coded wires. If Elster or Neptune color-coding does not work for your meter, try using Sensus color-coding.

3. UDA <u>Meter</u> Terminal Block Hookup (Terminals 5,6,7): Apply the color-coding that pertains to the manufacturer of the Water Meter.

4. UDA <u>Primary AMI/AMR</u> Terminal Block Hookup (Terminals 8,9,10): Apply the color-coding that pertains to the manufacturer of the Primary AMI/AMR Endpoint.

5. UDA <u>Secondary AMI/AMR</u> Terminal Block Hookup (Terminals 1,2,3): Apply the color-coding that pertains to the manufacturer of the Secondary AMI/AMR Endpoint.

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

7. UDA Terminal 4: [Reserved] – This Terminal Should Remain Unconnected.

8. For Badger Meter and/or Badger AMR Endpoint applications, attach a jumper wire between terminals 3 and 7 and a jumper wire between terminals 7 and 10, thereby bonding the water meter signal ground to both endpoint signal grounds.