

## MBA-2S

### Meter Base Adaptor

The MBA - 2S Meter Base Adaptor provides connectivity between a residential service to Candura's **PQPro™**, **PowerPro** or **Energy-Pro** Power Monitors. This enables investigation of power quality complaints from residential customers, kWhr verification of Smart Meters, energy audits, and system studies.

#### Key Components

**Meter Base Extender Adaptor** - installed between the Smart Meter and the Meter Base, includes measurement CT's and neutral connector.

**Meter Locking Ring** - to secure the adaptor to the Meter Base.

**Nylon Corrugated Conduit** - with fused voltage leads and CT output leads for signal connections to Candura's Power Monitors, and liquid tight fittings (for 1.2" diameter enclosure hole).

**IP 67 Rated Enclosure\*** - to house the Power Monitor outdoors and store the MBA-2S Kit.

**Multiple Lockout Hasp\*** - with vinyl coated galvanized steel cable to secure the enclosure with the Power Monitor to the service supply conduit.

\* Sold Separately.



#### Applications

**Power Quality and Energy Monitoring and Analysis** - with the Smart Meter operating normally (current flows through Meter), and using **PVII™** or **PowerView** Data Analysis Software.

**Interval Data Verification** - extract time specific kWhr usage (using software).

**System Studies** - energy audits and evaluation of energy and infrastructure utilization, including load diversity and service loading.

#### Key Features

Compatible with **ANSI Form 2S** Smart Meters - 120/240 Vac, 200 A rated.

Designed and manufactured to 300 V CAT IV Standards.

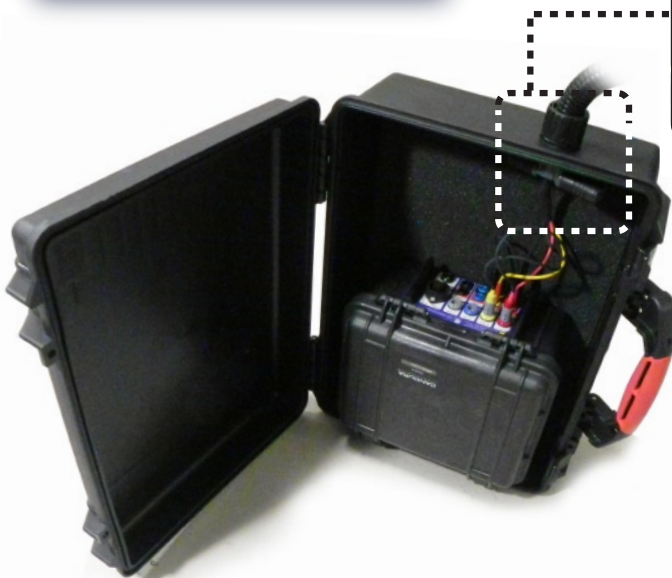
Easy Installation - with the Power Monitor set up in advance - **Install, Start Recording, Secure your Enclosure and Go!**

[www.candura.com](http://www.candura.com)

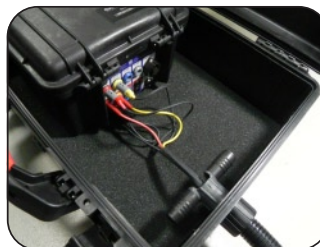
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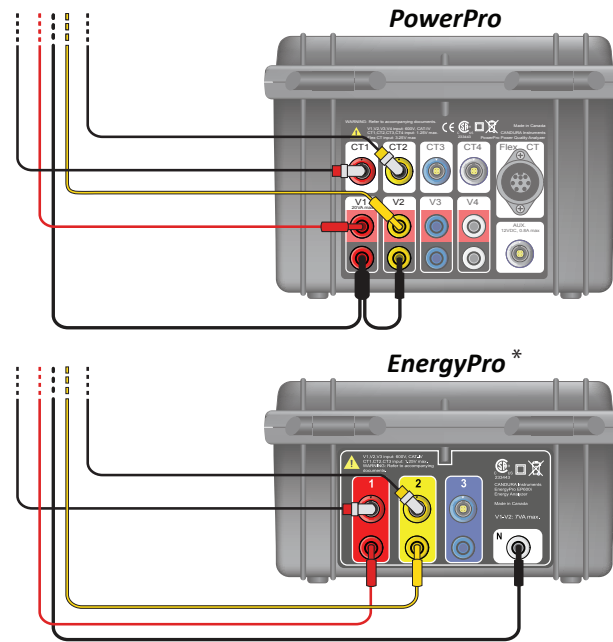
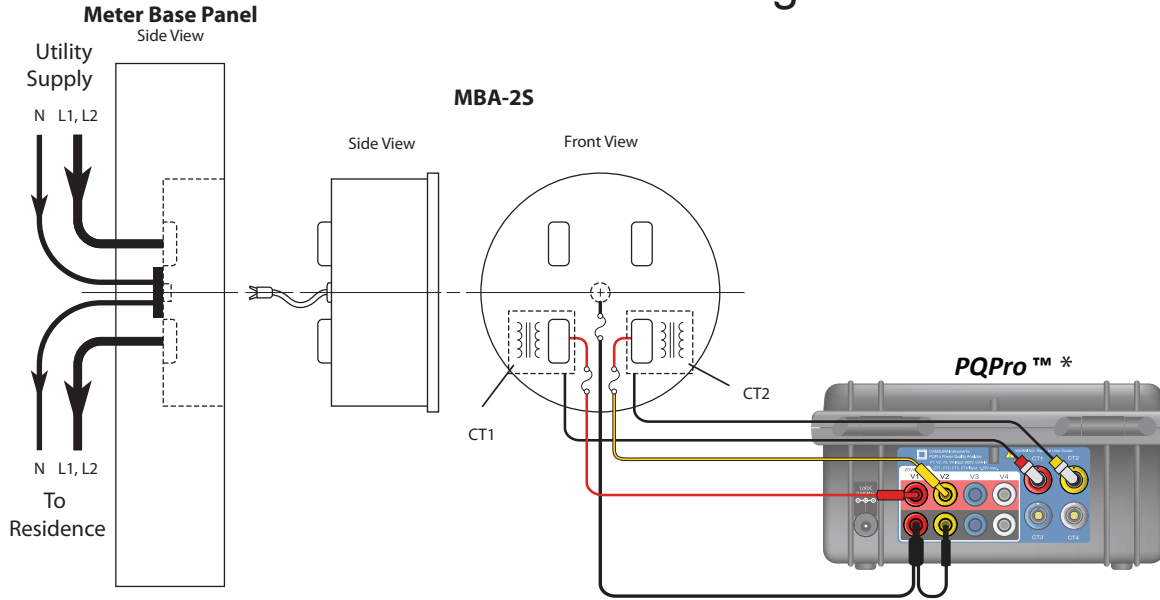
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Conduit fitting easily tightened with integrated handle.



## Connection Diagrams



# Meter Base Adaptor MBA - 2S

## Specifications

	MBA-2S kit
<b>Meter Base</b>	ANSI FORM 2S; UL listed.
<b>Extension Adaptor</b>	
<b>Conduit</b>	High impact; UV resistant; Self extinguishing; 6 feet in length; Temperature Rating: -50°C to 110°C; IP66 Rated; UL Listed
<b>Signal Connections</b>	Burdened CT signals (voltage signal, no open CT); Voltage signal (Fused Leads: 0.5A, 700V).
<b>Safety</b>	Special field inspected by Electrical Safety Authority (ESA) per SPE -1000 requirements; Designed and manufactured to 300V CAT IV standards; Current transformers hi-pot tested to 5.2kV.

	PQPro™	PowerPro	EnergyPro
<b>Nominal Voltage</b>	240 VAC	240 VAC	240 VAC
<b>Rated Current</b>	200A	200A	200A
<b>Frequency</b>	45-65Hz	45-65Hz	45-65Hz
<b>Voltage Accuracy</b>	0.1% of full scale + 0.1% of reading	0.2% of full scale	0.5% of full scale
<b>Current Accuracy</b>	0.1% of full scale + 0.1% of reading	0.2% of full scale	0.5% of full scale
<b>RMS update</b>	½ cycle	1 cycle	1 second
<b>Storage Rate</b>	0.2 sec to 30 min	1 sec to 30 min	1 sec to 30 min
<b>Power Factor</b>	True	True	True
<b>kW/kVA/kVar</b>	Yes	Yes	Yes
<b>Demand</b>	Yes	Yes	Yes
<b>Energy Costing</b>	Yes	Yes	Yes
<b>THD + Harmonics</b>	Yes - up to 128th	Yes - up to 64th	Yes - up to 16th
<b>Interharmonics</b>	Yes	No	No
<b>Waveforms</b>	Yes (1024 and 256 samples/cycle)	Yes (256 samples/cycle)	Yes (32 samples/cycle)
<b>Event Capture</b>	Yes	Yes	No
<b>Flicker</b>	Yes	Optional	No
<b>Self Powered</b>	Yes	Yes	Yes
<b>Analysis Software</b>	PV II™	PowerView	PowerView
<b>Safety</b>	600V CAT IV	600V CAT IV CSA	600V CAT IV CSA

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instruments

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\* Requires 2 pin - to - 4pin adaptor for CT connections.

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## Candura's Power Monitors Set-up for use with the MBA-2S Meter Base Adaptor

See the MBA-2S Product Brochure supplied with the MBA-2S for Specifications, Hook-up Diagrams and Installation Information.

**NOTE: Ensure the neutral connection is made in the Meter Base.**

### PQPro™ Configuration

Phase CT: 200A Clamp

Configuration: 1 Phase - 3 Wire

Storage Interval: 15 seconds or as desired

Trigger Levels: as desired

\*\*\* Settings that are highlighted are required



### PowerPro Configuration

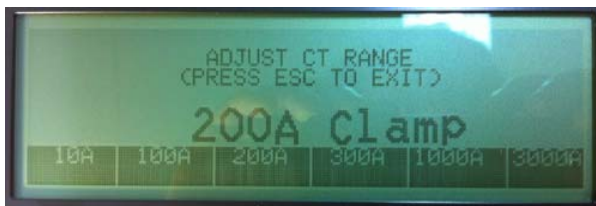
Phase CT: 200A Clamp

Configuration: 1 Phase - 3 Wire

Ch4 Recording: Off

Storage Interval: 15 seconds or as desired

Trigger Levels: as desired



### EnergyPro Configuration

CT: 200A Clamp

Configuration: 1P3W

Storage Interval: 15 seconds or as desired



## **WHEN INSTALLING THIS ADAPTER THE METER JAWS MAY OR MAY NOT BECOME ENERGIZED:**

Always use caution and follow established safety procedures:

1. Wear safety apparel.
2. Use safety equipment.
3. Take action to prevent injury to yourself and others in the event of failure of the installation.
4. Take action to prevent/decrease damage to property in the event of failure of the installation.
5. If you are unsure how to safely energize the installation, get someone who is knowledgeable to do it.