

MBA-16S Meter Base Adaptor

The MBA - 16S Meter Base Adaptor provides connectivity between 3 Phase 4 Wire Self Contained 16S type metering installations to Candura's **PQPro™**, **PowerPro** or **EnergyPro** Power Monitors. This enables investigation of power quality complaints from industrial and commercial 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.

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-16S 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 16S** Smart Meters - up to 600Vac, 200A rated.

Designed and manufactured to 600 V CAT IV Standards.

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


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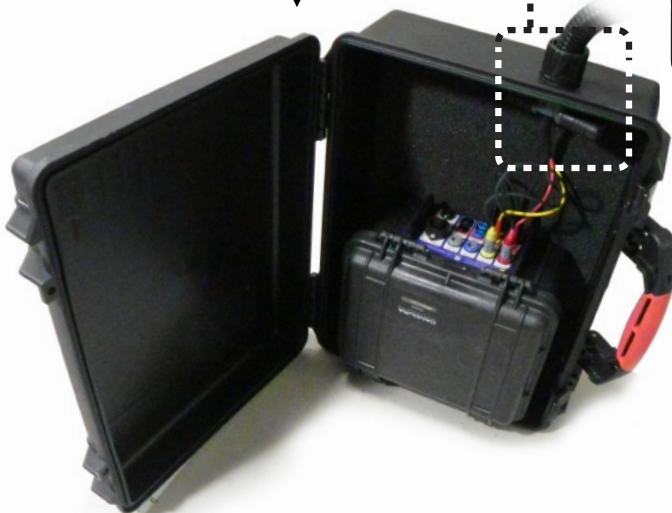
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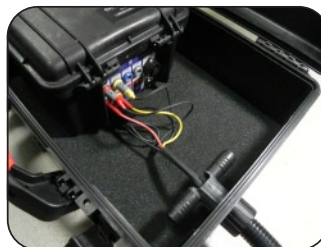
Proudly Canadian 



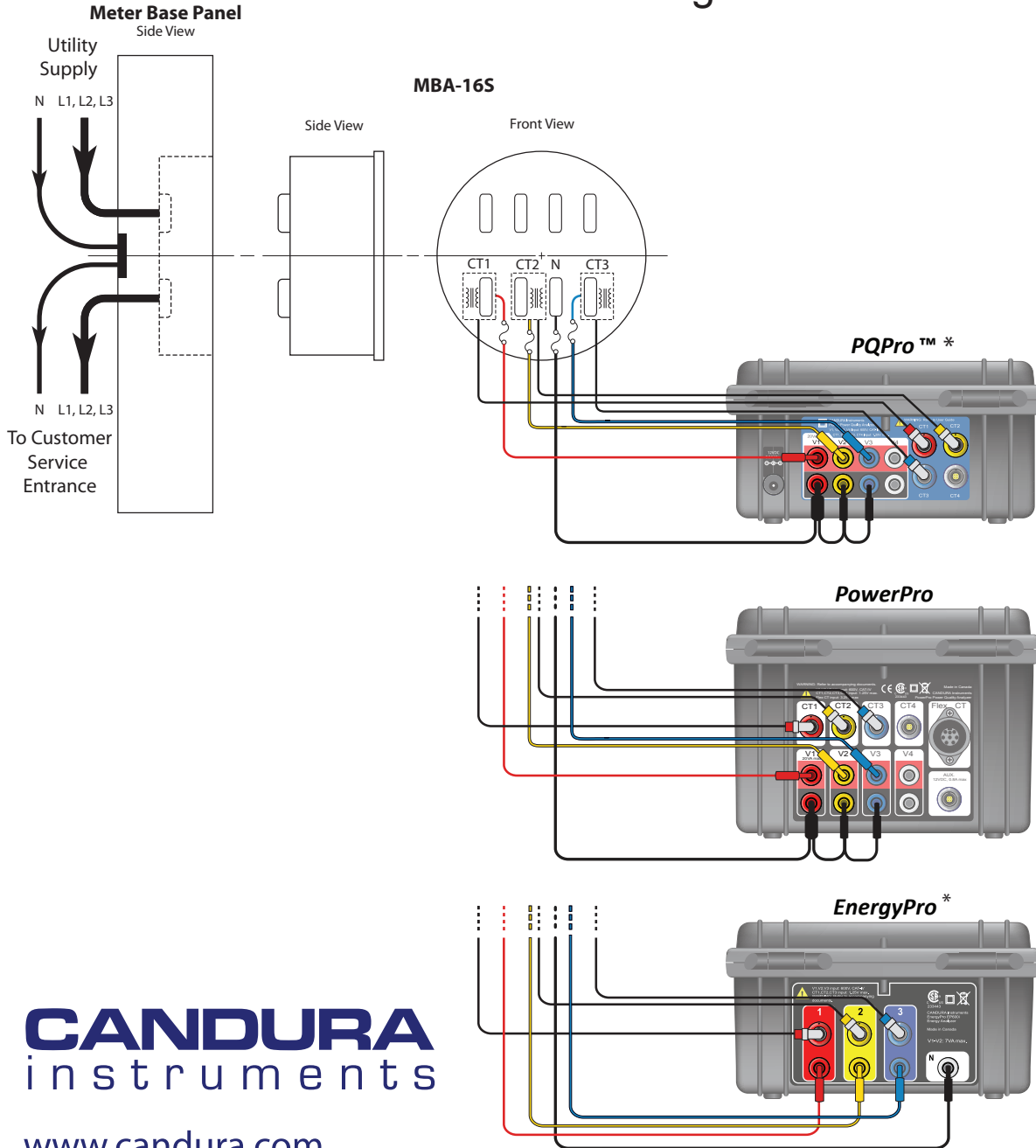
Installation: Shown with MBA-2S 



Conduit fitting easily tightened with integrated handle.



Connection Diagrams



Meter Base Adaptor MBA - 16S

Specifications

	MBA-16S kit
Meter Base	ANSI FORM 16S; UL listed.
Extension Adaptor	
Conduit	High impact; UV resistant; Self extinguishing; 6 feet in length; Temperature Rating: -50°C to 110°C; IP66 Rated; UL Listed
Signal Connections	Burdened CT signals (voltage signal, no open CT); Voltage signal (Fused Leads: 0.5A, 700V).
Safety	Special field inspected by Electrical Safety Authority (ESA) per SPE -1000 requirements; Designed and manufactured to 600V CAT IV standards; Current transformers hi-pot tested to 5.2kV.

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

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

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Candura's Power Monitors Set-up for use with the MBA-16S Meter Base Adaptor

See the MBA-16S Product Brochure supplied with the MBA-16S for Specifications, Hook-up Diagrams and Installation Information.

PQPro™ Configuration

Phase CT: **200A Clamp**

Configuration: **3 Phase - 4 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: **3 Phase - 4 Wire**

Ch4 Recording: Off

Storage Interval: 15 seconds or as desired

Trigger Levels: as desired



EnergyPro Configuration

CT: **200A Clamp**

Configuration: **3P4W**

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.