

Polaris 2500

3-Phase kWh Meter



With Modbus/RTU over RS485 communication!



Smart for Greenlife!

Advantages

- With Modbus/RTU over RS485 communication (very cost effective as compared with the competitors)
- Foolproof system. DAE meter will be warning if the CTs are installed in the wrong phases
- Polaris meters are not direction sensitive. It does not matter if the contractors install the CT with wrong direction of current. DAE meters can detect it and compensate it
- DAE's CT is exactly the same and exchangeable among all the meters including Polaris 1000, 1500, 2000, 2500, 3000 kWh meters and SMB350 multi-circuit, multi-function meters
- 5A CT is available to measure the current of original CT in electrical panel. This will significantly reduce cost for customers
- Can interface with DAE EnergyLink400 for remote reading system with billing
- High resolution, Kt = 1Wh (1000 pulses per kWh)
- Very compact current sensors (CTs) and the accuracy will not be affected when the CTs are mounted up to 2000 feet away from the meter.
- Very easy installation (not necessary to drill a hole and open the whole cover of the meter)
- Parameters reading with LED display, very clear even in not-well lighted area

Features

- Revenue-grade accuracy
- Non-volatile Memory, the stored data is maintained through power outages.
- Parallel up to three sets of CTs for cumulative reading
- Meter can be used in the following configurations:
 - 3-Phase, 3-Wire
 - 3-Phase, 4-Wire
- Demand optional (15 minute interval standard, 30 minute or 60 minute intervals available)
- UL/CUL Listed
- California CTEP approved for use with solid-core CTs
- Certified by independent test lab to exceed ANSI C12.1 national accuracy standards

Current Sensors (CTs)

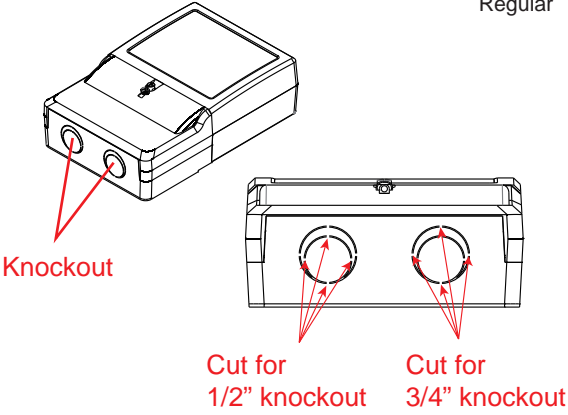
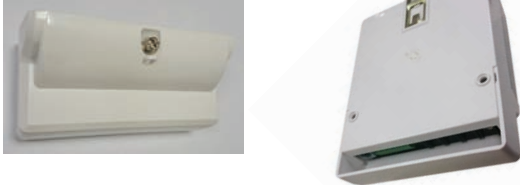


Solid-core




Split-core

Terminal Cover

Regular	Special
 <p>Knockout</p> <p>Cut for 1/2" knockout</p> <p>Cut for 3/4" knockout</p> <p>The voltage and CT wires will come from the knockout of the meter bottom.</p>	 <p>The voltage and CT wires will come from the back of the meter.</p>

Note: Please specify if special terminal cover is needed when ordering

Specifications

Technical and Physical	
Frequency	50 or 60 Hz
Working Voltage	Derived from voltage input
Power Consumption	7VA
Measured Parameters	kW, kWh (default), demand (optional)
Operating Temperature	-20~50°C (-4~122°F)
Relative Humidity	0~95% non-condensing
Accuracy ¹	0.5% from 1% to 100% of rated load
Safety	c  us
Weight	690g
Dimensions	W 5" x H 7.42" x D 2.24" wall-mount (regular terminal cover)
	W 5" x H 6.50" x D 2.24" wall-mount (special terminal cover)
Communications	
Interface	RS485
Protocol	Modbus/RTU
Address	1 to 254 (default is last 2 digits of serial number, 01~99=1~99, 00=100)
Baud Rate	1200, 2400, 4800, 9600 (default 9600)
Data Format	8/n/1

¹ Based on DAE solid-core CT @ PF=1

Ordering Code

Configurations	KIT Ordering Code	Amp	KIT Includes	Polaris Model NO.	CT Model NO.
480V 3- Phase, 3W	P252-005 KIT	5A	1 meter + 2 split-core CTs	P252-005	CT-5S
	P252-200 KIT	200A		P252-200	CT-200S or CT-200SB
	P252-400 KIT	400A		P252-400	CT-400S
	P252-600 KIT	600A		P252-600	CT-600S
	P252-005-S KIT	5A	1 meter + 2 solid-core CTs	P252-005	CT-5D3
	P252-200-S KIT	200A		P252-200	CT-200D3
208-240V 3- Phase, 3W	P253-005 KIT	5A	1 meter + 2 split-core CTs	P253-005	CT-5S
	P253-200 KIT	200A		P253-200	CT-200S or CT-200SB
	P253-400 KIT	400A		P253-400	CT-400S
	P253-600 KIT	600A		P253-600	CT-600S
	P253-005-S KIT	5A	1 meter + 2 solid-core CTs	P253-005	CT-5D3
	P253-200-S KIT	200A		P253-200	CT-200D3
120/208V 3- Phase, 4W	P254-005 KIT	5A	1 meter + 3 split-core CTs	P254-005	CT-5S
	P254-200 KIT	200A		P254-200	CT-200S or CT-200SB
	P254-400 KIT	400A		P254-400	CT-400S
	P254-600 KIT	600A		P254-600	CT-600S
	P254-005-S KIT	5A	1 meter + 3 solid-core CTs	P254-005	CT-5D3
	P254-200-S KIT	200A		P254-200	CT-200D3
240/416V 3- Phase, 4W	P255-005 KIT	5A	1 meter + 3 split-core CTs	P255-005	CT-5S
	P255-200 KIT	200A		P255-200	CT-200S or CT-200SB
	P255-400 KIT	400A		P255-400	CT-400S
	P255-600 KIT	600A		P255-600	CT-600S
	P255-005-S KIT	5A	1 meter + 3 solid-core CTs	P255-005	CT-5D3
	P255-200-S KIT	200A		P255-200	CT-200D3
277/480V 3- Phase, 4W	P256-005 KIT	5A	1 meter + 3 split-core CTs	P256-005	CT-5S
	P256-200 KIT	200A		P256-200	CT-200S or CT-200SB
	P256-400 KIT	400A		P256-400	CT-400S
	P256-600 KIT	600A		P256-600	CT-600S
	P256-005-S KIT	5A	1 meter + 3 solid-core CTs	P256-005	CT-5D3
	P256-200-S KIT	200A		P256-200	CT-200D3

※ For demand option add suffix "D" to the ordering code.
e.g. : P254-200D KIT