

DAE Polaris Universal kWh Meter

UL,120/208V, 3P4W (3 hot wire, 1 neutral), 1P3W (2 hot wire, 1 neutral), 1P2W (1 hot wire, 1 neutral), 30-200A, RS485

[Specification]

Model	Polaris 2500
Type	Polaris Universal kWh Meter
Pulse Output	1000 pulses per kWh
Accuracy	Revenue-grade accuracy (0.5% accuracy, see datasheet in DAE Controls website for details) The accuracy will not be affected when the CTs are mounted up to 2000 feet away from the meter.
Demand	Optional (15 minutes interval standard, 30 minutes or 60 minutes intervals available)
Certification	UL/CUL Listed, California CTEP Approved (CT-200D3)
Display Style	LED
Thickness	2.25 inches
Installation Method	Wall Mount
Usage	Indoor use only. (DAE Watertight NEMA 4 enclosure is available for outdoor use)
Meter Body	Plastic
Compatible CT	600A (1.38" inner dia.), 400A (1.38" inner dia.), 200A (0.94" inner dia.), 100A (0.63" inner dia.), 50A (0.39" inner dia.) Split Core CTs and 600A (1.38" inner dia.), 400A (1.38" inner dia.), 200A (1.02" inner dia.), 50A (0.49" inner dia.) Solid Core CTs available for purchasing separately.
Warranty	Five years

[Feature]

- UL listed, 30A - 200A Revenue-Grade, Polaris Universal kWh Meter, for 120/208V, 3 phases, 4 wires (3 hot wire, 1 neutral, 3 CTs required, can replace P254-200 or P204-200), or 120/240V, 1 phases, 3 wires (2 hot wire, 1 neutral, 2 CTs required, can replace P153-200 or P103-200), or 1P2W(1 hot wire, 1 neutral, 1 CT required, can replace P152-200 or P102-200), Modbus RTU/RS485 communications.
- Factory calibration certificates available for government contracts.
- Parallel up to three sets of CTs for cumulative reading.
- Non-volatile Memory, the stored data is maintained through power outages.
- No conversion factor or multiplier required.
- Solid core CTs are suggested for new construction or for retrofitting construction when the power can be shut off. Split core CTs are ideal for retrofitting projects without having to

disconnect wire terminations.

- Current Transformers (CTs) are not direction sensitive. It does not matter if the contractors install the CTs with wrong direction of current. DAE meters can detect it and compensate it.

[Remote Reading Solutions]

- Please refer to 5th picture. DAE Cloud Metering System available with DAE CC2030 Gateway. DAE CC2030 gateway will get the energy data from DAE electrical meters and send them to the cloud (DAE server) through Ethernet. With PC, cell phone or tablet, the building owners or property managers will therefore be able to get access to real time data as well as the monthly kWh consumption and billing reports to their tenants.
- Wireless remote reading available with DAE RF converters.



[Picture 1]



[Picture 2]



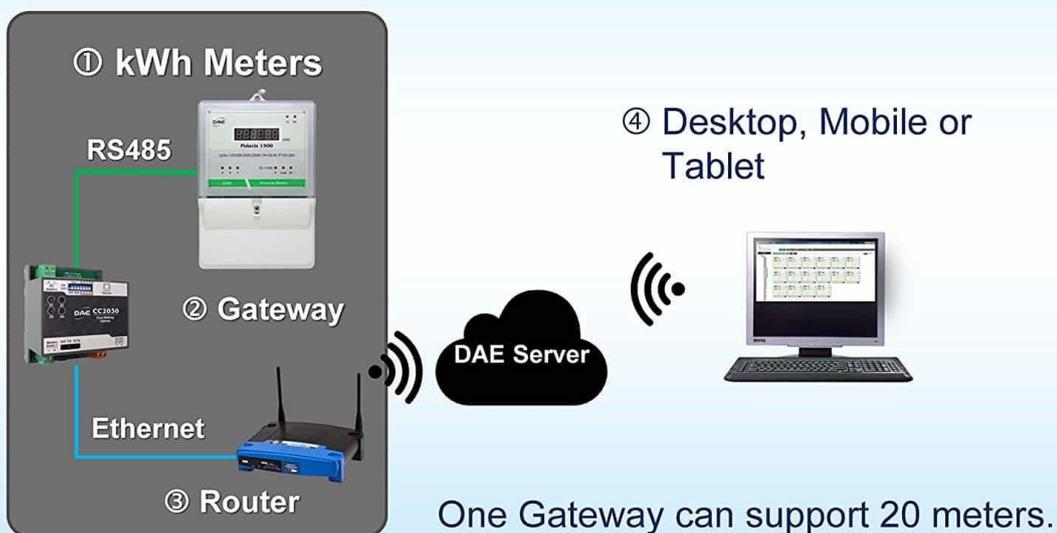
[Picture 3]



[Picture 4]

Cloud System Architecture

kWh Meters

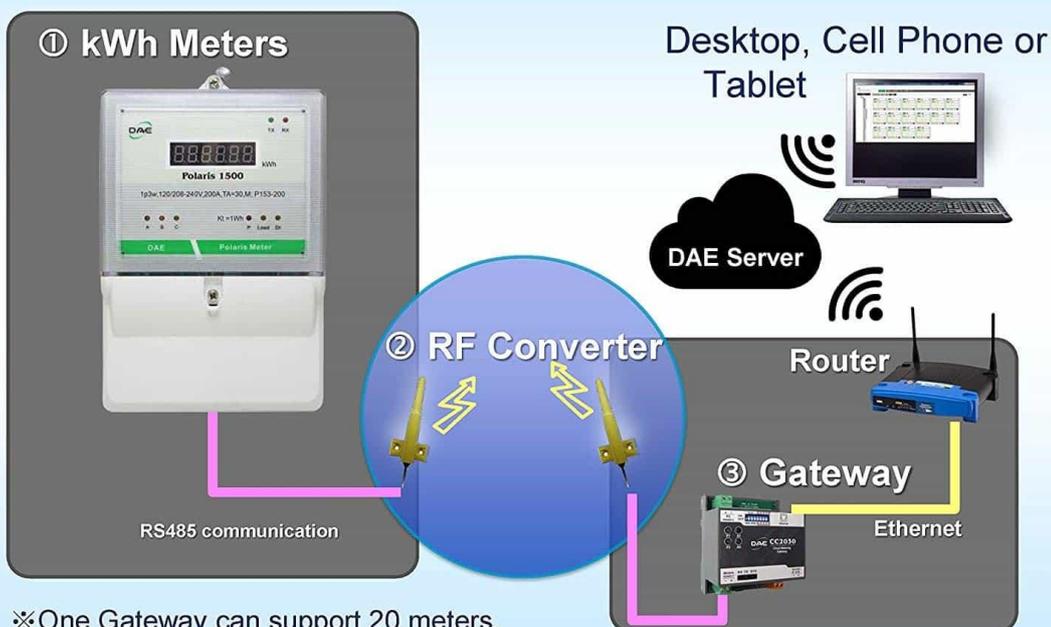


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[Picture 5]

Wireless Cloud System

kWh Meters



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[Picture 6]



[Picture 7]