

FlexOM-PP-Meter Solution



The CPS Commercial Monitoring Package is a complete data acquisition, monitoring and control package aimed for small to medium commercial applications. This turnkey solution includes a customer facing Monitoring Portal, Flex Gateway data logger, site activation mobile App, and Revenue-Grade site meter.

Key Features

- Low cost, complete HW and SW package
- Includes Revenue-Grade site level meter (CTs not included)
- Full access to Inverter Data (over 15 parameters per inverter)
- 1-20 minute interval data (up to 2 years of site data can be downloaded)
- 5 years of monitoring included (extensions available)
- Automated site Commissioning Report
- Up to 32 devices per Flex Gateway (no additional fee's for each inverter connection)
- Site activation with 'CPS Connect Pro" IOS or Android Smart Phone App
- Inverter On/Off, remote Arc-Fault reset, PF and Active power curtailment controls capability

Model Name	FlexOM-PP-Meter	FlexOM-PP-Meter-4G
BOM List		
NEMA4 type enclosure Wall & pole mounting accessories	X	X
Breaker 3P, 600V	X	X
Transformer 600/480/240/208V Primary, 110V Secondary	X	X
AC-DC power supply 85-264 VAC input, 12V output, 40W	X	X
RS485 Surge 24V	X	X
Flex Gateway Includes 4G module, WiFi optional	X	X
Data plan (AT&T and T-Mobile) 5 years for 32 devices in a daisy chain		X
Revenue meter Wattnode	X	X
CPS Flex Gateway		
Inverters to Gateway	Modbus®RS485	
Gateway to Portal	Ethernet	
Inverter connections per card	1 - 32	
Protocols	SunSpec XML HTTPS, CPS Modbus® RTU	
Local Programming	Wi-Fi to CPS Connect Phone App (iOS and Android)	
Data sampling rate	Programmable data sampling (1 to 20 minute sample rate)	
Local data storage	30 days based on 15 minute intervals	
Data parameters	Modbus®ID, Inverter S/N's, Model, Tyield/Dyield(kWh), Eff(%), PF, Pmax(kW), Pac(kW), Sac(kVA), Uabc(V), Iabc(A), Upv(V), Ipv(A), Freq(Hz), Mode, Time, Event	
Revenue-grade Meter		
Meter Type	WattNode Revenue-grade Wide-Range Modbus® Meter	
Input Voltage	Line powered from 3Phs, 208/240/480/600 Vac, 60Hz	
Communication protocol	Modbus® RTU RS485	
Measurement Accuracy	ANSI C12.20 class 0.5 and ANSI C12.1	
Update Rate	Approximately 0.1 second	
Startup Time	≤ 1 second after the supply voltage is applied	
Monitoring		
Interface	CPS Web-based Customer Facing Portal	
Inverter Controls	On/Off, PF control, Active Power curtailment, Remote Arc-Fault reset	
Inverter Data parameters	Pac(kW), Uabc(V), Iabc(A), Upv(V), Ipv(A), Temp(C), THDv, THDi	
Site-Level Production	Energy(kWh) Day, Month, Year	
Real-time or Daily Notification	Status, Warning, Protect, Fault	
Commissioning Reports	System info: Site address, Installation date, Rated AC/DCKW Inverter info: Model, S/N, FW, V/F Relay settings, Performance	
Production Reports	Modbus ID, Inverter S/N's, Model, Tyield/Dyield(kWh), Eff(%), PF, Pmax(kW), Pac(kW), Sac(kVA), Uabc(V), Iabc(A), Upv(V), Ipv(A), Freq(Hz), Mode, Time, Event	
Environment		
Operating Temperature Range	-40°C ~ 60°C (-40°F~ 140°F)	
Relative Humidity	4% to 100%	
Max. Operating Altitude	4,000 m (13,123 ft.)	
Mechanical Parameters (Meter Enclosure)		
Dimensions (HxWxD)	350 x 550 x 190 mm	
Weight	12 kg	
Protection Degree	NEMA 4 / IP65	
Installation Options	Wall Mounting, Pole Mounting	

