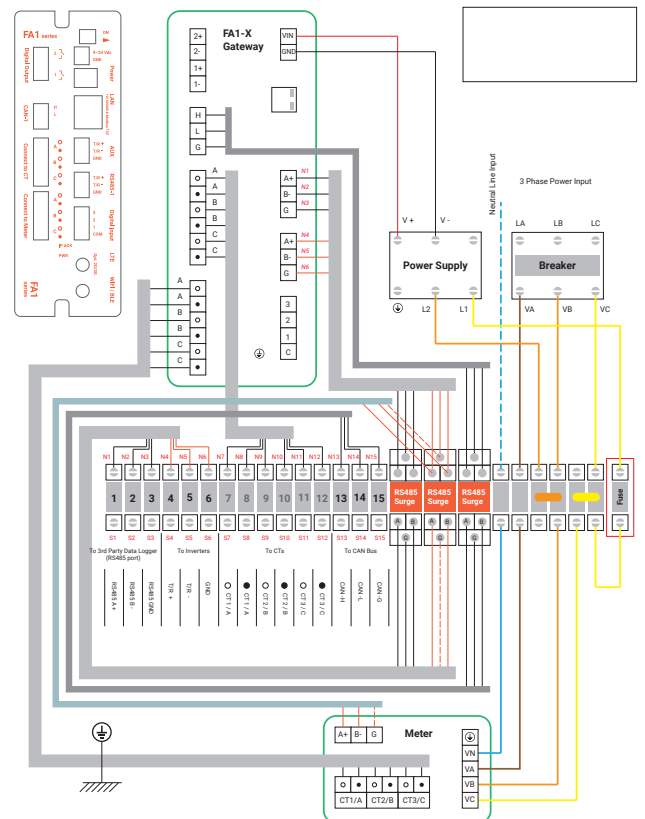




The CPS FlexOM Meter offers a revenue-grade metering solution for CPS 25, 36, 50, 60, 100, and 125 kW inverters. The FlexOM meter solution includes a FlexOM Gateway and revenue-grade meter integrated into a NEMA 4 enclosure. FlexOM Portal Bundles are offered by CPS with web portal data access to features such as data charting, monitoring alerts, kiosk view, and more!

Key Features

- Low-cost, complete hardware and software package
- Includes revenue-grade site-level meter (CTs not supplied, and must have output voltage of 0.333Vac at full scale)
- Full access to inverter data (15+ parameters per inverter)
- 1- to 20-minute interval data (download up to 5 years of site data)
- 5 years of monitoring included (extensions available)
- Automated site commissioning report
- Up to 32 devices per Flex Gateway (no additional fees for each inverter connection)
- Site activation with "CPS Connect Pro" app (iOS and Android)
- Inverter on/off, remote arc-fault reset, PF and active power curtailment controls capability
- Remote CT reversal capability





Product Model	FlexOM Meter	FlexOM-4G Meter
BOM List		
NEMA 4 Type Enclosure <i>Wall & pole mounting accessories</i>	×	×
Breaker <i>3 P, 5 A, 690 Vac, 2.5 kAIC</i>	×	×
AC-DC Power Supply <i>150-900 Vac output, 12 V output, 18 W</i>	×	×
RS485 Surge <i>12 Vdc, 20 kA, ≤1 ns</i>	×	×
Gateway	FA1-X Gateway card	FA1-X Gateway card
Pre-installed 4G SIM Card		×
Data plan (compatible with AT&T, T-Mobile, and Verizon) ¹ <i>5 years for 32 devices in a daisy chain</i>		×
Revenue Meter <i>WattNode® revenue-grade wide-range Modbus® meter</i>	×	×
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 ConnectPro app (iOS and Android)	
Data Sampling Rate	Programmable data sampling (1- to 20-minute sample rate)	
Local Data Storage	30 days based on 20-minute intervals ²	
Data Parameters	Modbus®ID, inverter S/Ns, model, Tyield/Dyield (kWh), Eff (%), PF, Pmax (kW), Pac (kW), Sac (kVA), Uabc (V), Iabc (A), Upv (V), Freq (Hz), mode, time, event	
Revenue-Grade Meter		
Meter Type	WattNode® revenue-grade wide-range Modbus® meter	
Input Voltage	Line-powered from 3-phase, 208/480/600 Vac, 60 Hz	
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 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 kW AC/DC Inverter info: model, S/N, firmware, V/F relay settings, performance	
Production Reports	Modbus®ID, inverter S/Ns, model, Tyield/Dyield (kWh), Eff (%), PF, Pmax (kW), Pac (kW), Sac (kVA), Uabc (V), Iabc (A), Upv (V), Freq (Hz), mode, time, event	
Environment		
Operating Temperature Range	-40°F to 140°F (-40°C to 60°C)	
Relative Humidity	5-85% (non-condensing)	
Maximum Operating Altitude	13123 ft (4000 m)	
Mechanical Parameters (Meter Enclosure)		
Dimensions (H × W × D)	23.6 × 13.7 × 6.8 in (586 × 347 × 172 mm)	
Weight	41.9 lb (19 kg)	
Protection Degree	NEMA 4 / IP65	
Installation Options	Wall mounting, pole mounting	

¹ 4G cellular network coverage in US and Canada locations.

² FlexOM Gateway only stores data when the Gateway card is continuously powered.