

# CPS Commercial Monitoring Package

Model CPS COM-PKG-600-US



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
- 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 inverters per Flex Gateway (no additional fee's for each inverter connection)
- Site activation with "CPS Connect" IOS or Android Smart Phone App
- Inverter On/Off, remote Arc-Fault reset, PF and Active power curtailment controls capability

Model Name	CPS COM-PKG-600-US
<b>CPS Flex Gateway</b>	
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, 480 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
Default CT Phase Angle Correction	0.0 degrees
CT Type	Revenue-grade, Split-core, 1.83" x 1.25" window opening
CT Accuracy	0.75%
CT Rated Current/Output	600 Amp/0.333 Vac

### 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

### Mechanical Parameters (Meter Enclosure)

Enclosure NEMA / IP Rating	NEMA 4 / IP66
Enclosure Dimensions (H x W x D)	11.50" x 9.75" x 5.19" (292mm x 248mm x 132mm)
Enclosure Weight	12.5lb (5.67kg)
Ambient temperature range	-30 to +85°C
Relative humidity	<85% Non-condensing

