

# PPS EC300 SERIES

## Stationary Generator Monitoring System

The PPS EC300 Series gateways are full featured solutions for commercial/industrial generators. These monitors include RS-232/485 Modbus RTU, Modbus TCP, 2 on-board I/O ports and ethernet or cellular connection.



### Standard Unit Includes

- PPS EC310 or EC360 Gateway - Fully Configured & Scripted
- Ethernet and Cellular Connection (EC310 is Ethernet Only)
- 2 I/O ports
- 1 Relay Driver Output
- 9-32VDC Power
- Over-The-Web Unit Configuration and Updates
- Modbus Data Retrieval
- Customizable Alert Notifications
- 3 Year Warranty

### Modbus Configuration

The PPS EC300 Series Gateway system is compatible with most major generator and transfer switch brands providing extensive flexibility when selecting what conditions to monitor. The EC Series allows you to dive deeper into the equipment to monitor analog values, alarms, conditions and real-time data.

The PPS EC Series Gateway connects to field equipment via several connection methods: Serial RS-232/485 Modbus RTU, Modbus-TCP, or Ethernet/IP, Can J1939, SNMP. On-board I/O ports allow sensors and additional equipment to be connected.

PPS EC Series comes in two versions: EC310 sends data via Ethernet only, while the EC360 can use both Ethernet and cellular communication.

The powerful feature Remote Access allows you to open up a secure connection to your equipment and program it remotely. For example, with an EC310 Gateway connected to your generator or transfer switch, you can perform debugging or programming remotely from your PC, using your regular configuration software.

### User Interface: Power Link Pro

Power Link | PRO

Power Link Pro is a comprehensive interface built on the PPS Argos platform. The platform provides a detailed Dashboard, the ability to view the details of all Modbus registers in real time, historical graphs, and history of alarms. All data details are logged and can be exported on demand or automatically sent on a scheduled basis. The system also provides Remote Access allowing you to securely connect to the control panel to the manufacturer's software from your computer, anywhere in the world.



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	EC310	EC360
Communication	Ethernet Only	Ethernet & 4G LTE
Ethernet	10/100 Mbit/s	
Antenna Connector	-	SMA female
Relay Output (max 24V, AC/DC, 1A)	1	
Digital Inputs	2 (Dry Contact)	
Analog Inputs (PT100, 0-10V or 0-20mA)	4, all supporting 0-10V or 0-20mA and 2 supporting PT100	
Serial Port #1	RS-232, 1,2 kbit/s to 115,2 kbit/s	
Serial Port #2	RS-485, 1,2 kbit/s to 115,2 kbit/s	
GPS	-	Built-In
Protocols	Modbus-RTU, Modbus TCP, Ethernet/IP, J1939	Modbus-RTU, Modbus TCP, Ethernet/IP, J1939, SNMP
Modbus RTU to TCP Conversion	Yes	
Proxy Support	SOCKS/WEB	
Wall Mounting/ DIN Rail	Yes/Yes	
Mechanical Dimensions (L x W x H)	92 x 135 x 27 mm	
Operating Temperature	-40 to +65°C	
Power Supply	9-32VDC	
Power Consumption (max at 24 Vdc)	2.5W	
Model Name for Certifications	NB301B	
Certifications	CE, CULUS, RCM	CE, CULUS, FCC, IC, PTCRB
Housing	Metal	
Remote Access Functionality	Yes	

### Utility Voltage Sensing Kit

Two types of kits are offered for Utility Voltage Sensing to log and report the events of "Utility Power On/Off." The PTK-UVD kit is a voltage detection sensor suitable for any AC voltage and connects on to a conductor to determine if AC voltage is present or not. The PTK-UVR kits include an AC voltage sensing relay and connection harness and come in voltage configurations of 120V, 208V, 240V, and 277V.

### Generator Voltage Sensing Kit

The PTK-GVD kit is a voltage detection sensor suitable for any AC voltage and connects on to an output conductor on the output side of the generator breaker to determine if AC voltage is present or not when the generator is running. This kit is used to log and report the event of "Generator Breaker Open." When used in conjunction with a Utility Voltage Sensing Kit, the condition of "Site Without Power" is reported when no voltage is present from either the Utility Source or Generator.



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