



The **Seeker** provides advanced power quality recording with integrated wireless communication and digital I/O in a small weatherproof, line-powered device. Designed for investigative work, smart grid distribution monitoring, and remote control applications, the Seeker is a one size fits all PQ solution.

## WHAT CAN THE SEEKER DO FOR YOU?

### INVESTIGATE

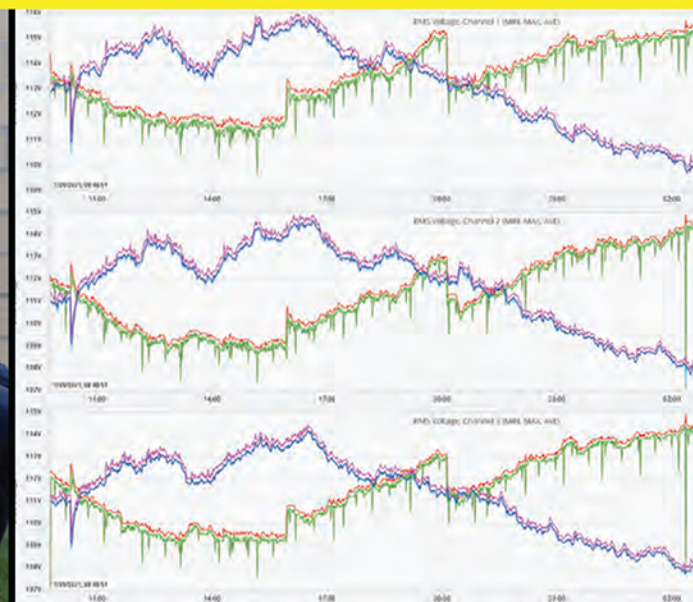
- Find PQ complaint root causes
- Measure voltage quality and load current characteristics
- Verify regulatory compliance
- Distributed generation testing and troubleshooting

### OBSERVE

- Gain distribution situational awareness
- Track and tune CVR and volt/VAR systems
- Receive instant outage notifications
- Monitor end of line voltage

### CONTROL

- Control distributed generation
- Enforce minimum positive power
- Monitor DER distortion and real/reactive power; disconnect based on threshold exceedances
- Implement custom SCADA control schemes using the Seeker's DNP interface, PQ measurements, and digital I/O

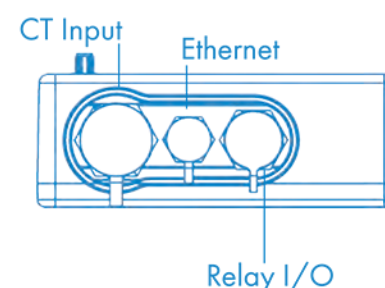
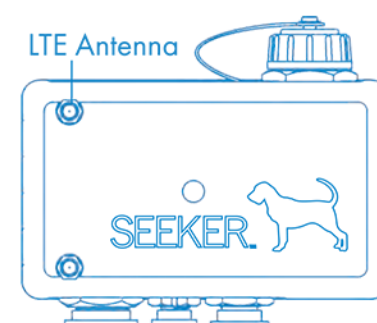
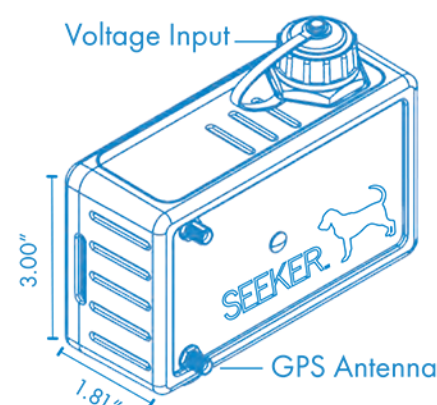




# SEEKER™



<b>COMMUNICATIONS</b>	Standard Options	Wi-Fi, Bluetooth LTE Cell Modem, Ethernet
<b>INFORMATION STORAGE</b>	Data Storage	144 MB onboard storage, unlimited cloud storage
<b>RECORD SETTINGS</b>	Interval Graphs	1 cycle to 4 hour interval, user selected, stop-when- full or wrap-around memory modes
	Significant Change Flicker Settings	1 V to 8 V in 1 V steps User-defined, or conform to IEEE 1453/ IEC 61000-4-15, and IEEE Std. 141
	Waveform Capture	Voltage and current threshold, periodic capture, waveshape, event cross triggers
<b>RELAY OUTPUTS</b>	Output Type	Dry Contact Form C (1 normally open, 1 normally closed)
	Number of Outputs	2 Independent Relays
	Max Switching Voltage	120V
	Max Switching Current	4 amps
<b>DIGITAL INPUTS</b>	Input Type	High Impedance
	Number of Inputs	2
	Min Sense Voltage	60V
	Nominal Sense Voltage	120V
	Max Sense Voltage	150V
<b>POWER SUPPLY REQUIREMENTS</b>	Voltage	60-600 VAC Channel 1 to Common (47-63 Hz)
	Power Consumption	5 Watts max, 15 VA max at 600 V
<b>ENVIRONMENTAL</b>	Operating Temp	-20° F to +135° F
	Humidity	Less than or equal to 85%
	Shock	60 Hz to 2 kHz, acceleration 25 G
	Vibration	10 Hz to 60 Hz, amplitude 1.8 mm
	Max Altitude	2.0 km (6560 ft), derated above 2.0 km
<b>PHYSICAL DIMENSIONS</b>	Size	5.06" L x 3.00" W x 1.81" H
	Weight	less than 1 lb
	Case	NEMA 4X



## Features & Benefits

### Cloud-based Recording:

The Seeker continuously streams PQ data to cloud-based PQ Canvass. Use a web browser to analyze the latest data instantly, without downloading.

### Control Options:

Use the internal dual Form C relays to control distributed generation or other equipment through SCADA or automatically based on measured values. Two isolated digital inputs provide status or other equipment monitoring.

### Communication Options:

The Seeker includes Wi-Fi, Bluetooth, LTE cell modem, and Ethernet communication options.

### SCADA Compatibility:

A full DNP interface over Wi-Fi, cell or Ethernet exposes all PQ measurements and I/O control functions.

### GPS Timestamping:

The optional integrated GPS receiver provides sample level timestamp accuracy.

### Easy To Install:

The Seeker's small weatherproof enclosure contains the AC power supply, wireless communications, relays, and PQ monitor. No external enclosure, power supply, or communications device is needed.

## 24/7 Technical Support

### Call Us Anytime

Power Monitors, Inc. is an industry-leading product design and manufacturing firm based in Mt. Crawford, Virginia. Founded in 1987, PMI set out with the goal to solve power quality problems by listening to our customers and working with them to design and manufacture products to suit their needs. Total customer satisfaction is our goal: we offer 24/7 technical support and extensive educational material.

## pqcanvass

### Cloud-based PQ Monitoring

- Use a web browser to see the state of your distribution system at a glance in a map-based display
- Access stripcharts, histograms, and daily profile graphs
- Compare voltage, current and power from different locations and find correlations across a distribution system
- Phone and tablet friendly

### Live Data and Event Notifications

- Programmable email and text message alerts for threshold exceedences, outages, or other events
- Get real-time readings and waveforms
- View up-to-the-minute data anywhere with a web browser

### Applications

- Browser based PQ data analysis
- Distribution situational awareness
- Voltage regulation
- VAR flow analysis
- End-of-Line monitoring

