

SpikeWatcher™

Remote, Mobile
Data Acquisition,
Monitoring,
and Control

SpikeWatcher™ is a complete system for capturing, storing, communicating and analyzing data. It is used by companies worldwide in a variety of applications:

- Monitoring indoor air quality
- Identifying HVAC usage patterns
- Finding electrical spikes in power lines
- Tracking moving vehicles to determine traffic flow
- Warning equipment operators of hazardous conditions
- Monitoring equipment in water treatment plants

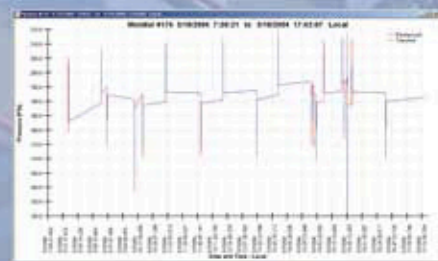
SpikeWatcher™ provides safe, secure wireless operation and data retrieval for remote or hazardous areas. It is a unique instrument that lets you be in “two places at once”, whether 1 foot away with a handheld computer, or on the other side of the world using the Internet. You can see your data in real-time, or retrieve it for later analysis. You can trigger actions and change the way the system operates, from anywhere. SpikeWatcher™ even sends email notifications to you when measurements exceed limits that you specify.

Event-triggered recording captures high levels of detail for long periods of time. Proven statistical techniques identify significant changes in sensor readings. SpikeWatcher™ records the important data at high speed, and then reverts to a slower rate to conserve its memory. This makes it ideal for capturing intermittent events, whether they occur once a second or once a year.

- Flexible
- Self-Contained
- Easy to Install
- Portable
- Secure

- Capture rapid, intermittent events automatically
- Save unnecessary travel by diagnosing problems remotely
- Keep personnel out of hazardous areas with wireless communication

Wireless Convenience
Intelligent Recording
Data at your fingertips



→ www.Qameleon.com



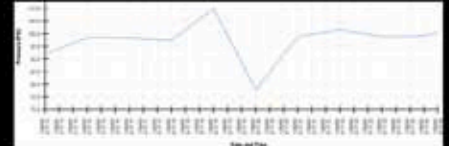
SPECIFICATIONS

- Power: External 12V battery, solar, or AC
- Size: 4.8 x 7.9 x 3.6 inches
122 x 200 x 92 mm
- Enclosure: Weatherproof NEMA 4X with weatherproof connectors
- Data Storage: 2 Gbytes of non-volatile Flash
- Analog Resolution: 12 bits
- Analog Input: 0 - 5 VDC or 4-20 mA
- Sample Rate: 1000 samples per second
- Recording Interval: 10 mSec to 24 Hrs, user selected
- Digital Outputs: activated when spike is detected or thresholds are exceeded
- Analog Inputs: 8
- Digital Inputs: 8
- Digital Outputs: 4 relay, 4 optoisolated
- Communications: Wi-Fi wireless LAN
Ethernet wired LAN
Municipal Wi-Fi
EDGE Cellular (optional)
- Internet Access: Virtual Private Network via cellular or DSL
- Optional Sensors: Temperature
Displacement (LVDT)
Pressure
AC Current
Acceleration (3-axis, built-in)
Wind speed
GPS (location, altitude, speed, heading)
- Interface to SCADA transmitter or PLC via digital input and output, and RS232/RS485.

SpikeWatcher™ Records Events that Data Loggers and SCADA Systems Never See

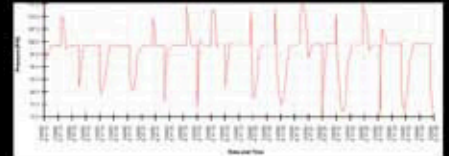
This example shows the results from a data logger recording pressure on a municipal water main once per second.

Data Logger



The difference is dramatic when SpikeWatcher™ records the same data 20 times per second.

SpikeWatcher™



SOFTWARE

SpikeWatcher is a complete “end to end” system for monitoring and controlling your equipment: from taking measurements with sensors in the field to graphically displaying your data in your office.

Our QViewPlus graphical interface program lets you watch the sensors in real-time, make adjustments and retrieve stored data. Your system operates in exactly the same way, whether you are using a handheld computer next to the SpikeWatcher module, a laptop in your truck, or a PC in your office connected to the Internet.



SPIKE is a PC program for graphically displaying, analyzing, and storing your data. All of your data is kept in a Microsoft Access database for easy integration with other programs.



Learn more about SpikeWatcher™ today at www.Gameleon.com

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