LIQUID LEAK DETECTION SYSTEMS

FG-BB-PoE

Digital Satellite Detection Panel With PoE Power Supply

Product Datasheet

- ▶ Satellite Detection Panel Managed by FG-NET
- ▶ Powered by PoE Switch
- ▶ Digital, Addressable
- ▶ Controls up to 5 Lengths of Sense Cables
- ▶ Simultaneous Leak Detection and Location

Description

FG-BB-PoE is a **Lite version** of the FG-BBOX satellite detection panel, connected to FG-NET and managed via a conventional Ethernet network. The specificity of FG-BB-PoE is that it functions without traditional 230 VAC power supply. Powered by a PoE (Power over Ethernet) switch, it offers a great simplicity and flexibility for the deployment of the system.

FG-BB-PoE extends the functionality of FG-NET by controlling an additional circuit of sense cables over five lengths, ideal for site extensions.

FG-BB-PoE is compatible with all TTK digital sense cables: water, acids and hydrocarbon sense cables.

In case of a leak detection on the sense cables connected to FG-BB-PoE, the concerned relay is triggered and the LED turns red.

Key Advantages

- Scalable System: Up to 25 FG-BB-PoE units can be added to a single FG-NET system, ensuring long-term expandability.
- Simplified System Deployment: No external power supply is required for the FG-BB-PoE, eliminating the need for additional cabling.
- Flexible Installation: The FG-BB-PoE can be installed without restrictions on proximity to fixed power outlets.
- Reliable During Power Failures: When connected to an uninterruptible power supply (UPS), the FG-BB-PoE leak detection panel remains operational during power outages, ensuring functionality in critical environments like data centers.
- Independent Cable Management: Capable of independently managing up to five digital sense cables, controlling a maximum length of 735 ft (225 m)*.
- Capable of detecting and locating multiple leaks simultaneously (5 cables = 5 potential alarms).
- Precise & Simultaneous Leak Detection: Detects and pinpoints multiple leaks at once for water, acids and hydrocarbon leak.
- Reliable & Intelligent Monitoring: Detects cable break faults while maintaining system integrity by continuing to monitor all preceding cables.
- Smart Connectivity & Alerts: Uses TCP/IP (RJ45 Ethernet) for easy integration with BMS via MODBUS/JBUS, and features 4 relay outputs.
- Customizable & Secure: Each sense cable is fully addressable and can be renamed, ensuring clear identification and easy system management.
- Real-Time Indicator Light: The FG-BB-PoE has no display but features a indicator light (green or red) for real-time status identification. It can be installed discreetly while all command and control remain centralized on the FG-NET unit.

*: 735 ft (225m) maximum with FG-ECX/FG-ACX type water/acids sense cables via FG-DCTL box (5 x147 ft (45 m)),
325 ft (100m) maximum for FG-OD20 hydrocarbon cables (5 x 65 ft (20m)),
246 ft (75m) maximum for FG-EC15 type water/acids sense cables (5 x 49 ft (15m)).

Technical Data

Compatibility	Digital unit: FG-NET Digital sense cables: FG-EC, FG-AC, FG-OD range Analog sense cables (via FG-DTCS box): FG-ECS, FG-ACS Diversion / Interface boxes: FG-DTC, FG-DTCS, FG-DCTL, FG-DOD
Dimensions & Weight	6.34" W x 5.16"H x 2.17"D (161 mm W x 131 mm H x 55 mm D) 1.1 lbs (0.5 kg)
Sensor Capacity	5 lengths of sense cable
Location Accuracy	Water & acids leak detection: +/- 3 ft (1 m) Oil leak detection: section
Operating Languages	NA
Supply Voltage	PoE switch
Current	NA
Power Consumption	6 W
Operating Temperature	5°F to 131°F (-15°C to 55°C)
Case Type	ABS flame retardant UL94V0
Screen Size	No screen
Format	Wall mounted
Ingress Protection	IP40 - Indoor use only
Serial Connection	NA
IT Security	TCP/IP connection (IPv4, IPv6) & Log-In Trap, HTTPS with TLS1.2, RFC 5280: X.509 (PKIC and CRL profile, IEEE 802.1X support, RADIUS or EAP-TLS)
Network	10/100BASE-T; IPv4/IPv6
Numbers of Realys	3 (1 leak + 1 break common fault + 1 power failure relay)
Relay Types	Volt free dry contact (NO, NC, COM)
Power Failure Relay	Activated on loss of supply voltage
Type of Faults Available on the Configurable Relays	Non-configurable
Maximum Relay Switching Voltage	125 VAC and 220 VDC
Maximum Relay Switching Capacity	60 W (30 V x 2A)

Identification Codes

FG-BB-PoE	FG-NET's Satellite Device with PoE Switch Power Supply

Certifications

CE

Read carefully the installation procedure for the FG-BB-PoE unit.

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