



- ▶ 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 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.

*: 225m maximum with FG-ECX/FG-ACX type water/acids sense cables via FG-DCTL box (5x45m=225m),

100m maximum for FG-OD20 hydrocarbon cables (5x20m=100m),

75m maximum for FG-EC15 type water/acids sense cables (5x15m=75m).

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	161 mm W x 131 mm H x 55 mm D 0.5 kg
Sensor Capacity	5 lengths of sense cable
Location Accuracy	Water & acids leak detection: +/- 1 m Oil leak detection: section
Operating Languages	NA
Supply Voltage	PoE switch
Current	NA
Power Consumption	6 W
Operating Temperature	-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 Relays	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



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

This brochure has been carefully prepared to ensure technical accuracy but is only intended for promotional use. TTK cannot guarantee that the information contained herein contains no errors or omissions, and hence does not accept responsibility related to the use of its equipment. TTK maintain its obligations set forth in the Standard Terms and Conditions of Sale and will not, under any circumstances, assume liability for any incidental damages, indirect or consequential, arising from the sale, resale, use or misuse of this product. The purchaser(s) accept their responsibility as the sole judge(s) of the adaptability of the product for the intended use.
FG-NET, FG-SYS and TOPSurveillance are trademarks of TTK S.A.S. © TTK 2025

- **TTK UK Ltd.** / 3 Luke Street / London EC2A 4PX / United Kingdom / T : +44 207 729 6002 / F : +44 207 729 6003 / www.ttkuk.com / sales@ttkuk.com
- **TTK Pte Ltd.** / #09-05, Shenton House, 3 Shenton Way / Singapore 068805 / T: +65.6220.2068 / M: +65.9271.6191 / F: +65-6220.2026 / www.ttk.sg / sales@ttk.sg
- **TTK Asia Ltd.** / 2107-2108 Kai Tak Commercial Building / 317 Des Voeux Road Central / Hongkong / T: +852.2858.7128 / F: +852.2858.8428 / www.ttkasia.com / info@ttkasia.com
- **TTK Middle East FZCO** / Building 6EA, Office 510 PO Box 54925 / Dubai Airport Free Zone / UAE / T: +971 4 70 17 553 / M: +971 50 259 66 29 / www.ttkuk.com / cgalmiche@ttk.fr
- **TTK Headquarters** / 19, rue du Général Foy / 75008 Paris / France / T : +33.1.56.76.90.10 / F : +33.1.55.90.62.15 / www.ttk.fr / ventes@ttk.fr