



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 sensing cables
- ▶ Simultaneous leak detection and location to the nearest meter

## 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 230VAC 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 sensing cables over five lengths, up to 225 meters\*, ideal for site extensions.

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

FG-BB-PoE has the same advanced features as the FG-NET panel, with the ability to locate simultaneous leaks, with an accuracy of one metre. The controls and functions of the device are all centralised on FG-NET. Moreover, no display on FG-BB-PoE panel but a single indicator light (green or red) allows real-time identification of the status of the panel. In case of a leak detection on the sense cables connected to FG-BB1-PoE, the concerned relay is triggered and the LED turns red.

## Features & Benefits

### FEATURES

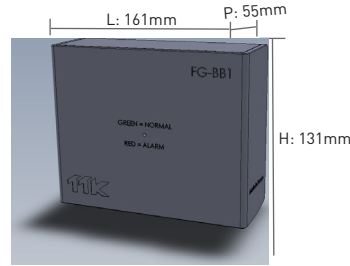
- Functions without traditional 230VAC power outlet and powered by a PoE switch.
- Able to independently manage up to 5 digital sense cables, allowing to control a maximum length of 225 m\*.
- Capable of detecting and locating multiple leaks simultaneously (5 cables = 5 potential alarms).
- Possibility to connect up to 16 FG-BB-PoE on an FG-NET control panel, without exceeding the total number of 500 digital sense cables controlled by an FG-NET.
- Possibility to connect several different types of sense cables (water, acids, hydrocarbons) on the same control panel, to benefit from a customised system.
- Each sense cable has its own address and name.
- Network connection - TCP/IP protocol via RJ45 socket.
- Relay type: NO/NC dry contact.
- 3 relays: 1 leakage relay, 1 discontinuity relay and 1 mains failure relay.

### BENEFITS

- Simplified system deployment: no need for a power supply for FG-BB-PoE and no need to run a cable for direct connection. Both FG-NET and FG-BB-PoE communicate through the existing company network.
- Flexibility: The installation of FG-BB-PoE is not limited to positions near fixed power outlets.
- Reliable even in case of power failure: when the PoE switch is connected to an uninterruptible power supply (e.g. UPS), the FG-BB-PoE leak detection panel is always functional even in the event of a power failure, which is extremely important for critical sites such as data centres.
- Capable of detecting discontinuity (to the nearest cable). In the event of a cable break, the system continues to monitor all other upstream cables and maintains its integrity.
- Software upgrade and system expansion are easy to implement.

\*: 225m maximum with FG-ECS type water/acid sense cables via FG-DCTL box (5x45m=225m),  
100m maximum for FG-OD20 hydrocarbon cables (5x20m=100m),  
75m maximum for FG-EC15 type water/acid sense cables (5x15m=75m)

# Product Diagram



## Technical Data

<b>Compatibility</b>	Digital unit: FG-NET Sense cables (digital): FG-EC, FG-AC, FG-OD range Sense cables (analogue through FG-DTCS, FG-DCTL boxes): FG-ECS, FG-ACS
<b>Dimensions</b>	W: 161 mm H: 131 mm D: 55 mm
<b>Maximum Length of Sense Cable</b>	5 lengths of sense cables
<b>Accuracy</b>	+/- 1 metre
<b>System Capacity</b>	Up to 16 FG-BB-PoE (or 16 FG-BBOX) can be monitored by 1 FG-NET
<b>Power Supply</b>	PoE Switch (Power over Ethernet)
<b>Maximum Power Consumption</b>	6W
<b>Working Temperature Range</b>	-15°C to 55°C
<b>Working Humidity Range</b>	5% to 80% non-condensing
<b>Relay Types</b>	Volt free contact (NO, NC, COM)
<b>Relay Numbers</b>	3
<b>Connectivity</b>	RJ45
<b>Maximum Relay Switching Voltage</b>	125 V AC and 220 V DC
<b>Maximum Relay Switching Capacity</b>	60 W (30V x 2A)
<b>Ingress Protection</b>	IP50 - indoor use only

## Identification Codes

<b>FG-BB-PoE (Wall mounted)</b>	FG-NET's Satellite Device with PoE switch power supply
<b>FG-NET (Wall mounted / Rack mounted)</b>	Digital Touchscreen Leak Detection Panel 100-240VAC
<b>FG-EC, FG-AC, FG-OD</b>	Digital sense cables in 3m, 7m and 15 lengths (3m, 7m and 12m for FG-OD)
<b>Accessories</b>	
<b>FG-DTC</b>	Diversion Box for 'TTK Bus 8723'
<b>FG-DTCS</b>	Addressable Box for one Water or Acids Cable, on 'TTK Bus 8723' (Sector Mode)
<b>FG-DCTL</b>	'Cut-To-Length' Addressable Box for Water or Acids Cable, on 'TTK Bus 8723' (Sector Mode)
<b>FG-DOD</b>	Bus Interface, for Integration of FG-OD Cables
<b>FG-CLC</b>	Leader Cable 3,5m, on 'TTK Bus 8723'
<b>FG-TMC</b>	Digital End Plug for FG-EC/AC Cables

## Certificates



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- **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](http://www.ttk.fr) / [ventes@ttk.fr](mailto:ventes@ttk.fr)
- **TTK UK Ltd.** / 3 Luke Street / London EC2A 4PX / United Kingdom / T : +44 207 729 6002 / F : +44 207 729 6003 / [www.ttkuk.com](http://www.ttkuk.com) / [sales@ttkuk.com](mailto: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](http://www.ttk.sg) / [sales@ttk.sg](mailto: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](http://www.ttkasia.com) / [info@ttkasia.com](mailto: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.ttk.com](http://www.ttk.com) / [cgalniche@ttk.fr](mailto:cgalniche@ttk.fr)
- **TTK Deutschland GmbH** / Berner Strasse 34 / 60437 Frankfurt / Deutschland / T : +49(0)69-95005630 / F : +49(0)69-95005640 / [www.ttk-gmbh.de](http://www.ttk-gmbh.de) / [vertrieb@ttk-gmbh.de](mailto:vertrieb@ttk-gmbh.de)
- **TTK North America Inc** / 1730 St Laurent Boulevard Suite 800 / Ottawa, ON, K1G 5L1 / Canada / T : +1 613 566 5968 / [www.ttkcanada.com](http://www.ttkcanada.com) / [info@ttkcanada.com](mailto:info@ttkcanada.com)
- **Thomas Sales & Marketing Inc. TTK Master Distributor For USA** / 7200 W 66th St / Bedford Park, IL 60638 / The United States / T: +1 630-518-4724 / [www.ttkusa.com](http://www.ttkusa.com) / [dmolk@ttkusa.com](mailto:dmolk@ttkusa.com)