



LIQUID LEAK DETECTION SYSTEMS

# FG-RELAYS

Digital External Relays Box

## Product Datasheet



- ▶ FG-NET Satellite Device
- ▶ 24 Configurable External Relay
- ▶ Up to 25 FG-RELAYS = 600 External Relays on a FG-NET Digital Unit

## Description

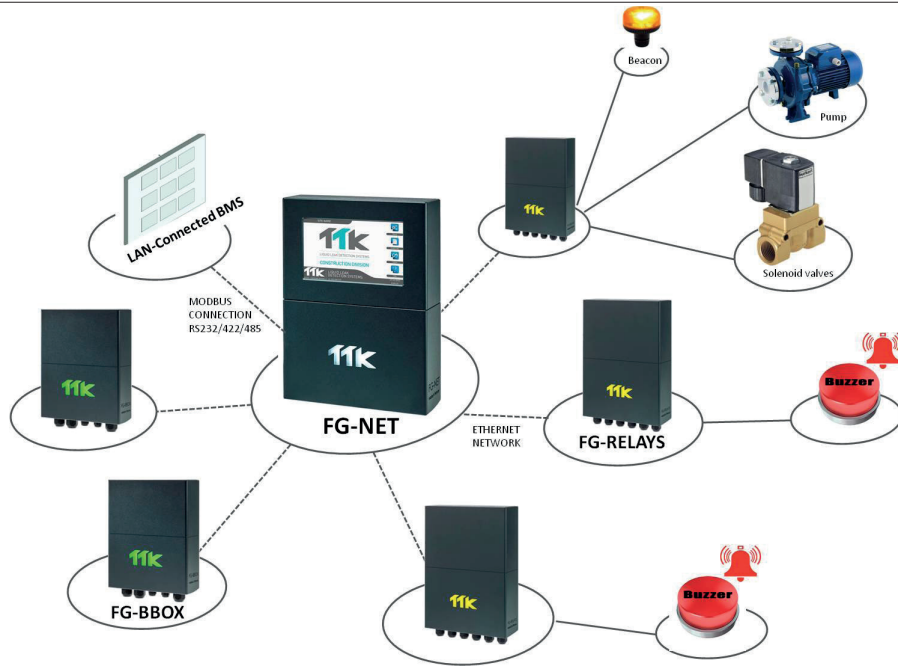
The FG-RELAYS is a Digital External Relays Box. It works as a satellite device of the FG-NET digital unit. It adds a set of 24 configurable external relays to the FG-NET. It allows FG-NET to drive external devices such as solenoid valves, BMS signals, beacons and others, to react in case of leak or system alarms.

In the event of a fault on the sense cables (leak or cable break), the relevant external relay on FG-RELAYS is activated and the LED of the corresponding relay switched on, the programmed external device is activated. On the FG-NET digital unit, the touch screen displays the location of the leak (+/- 3 ft (+/- 1 m)) and details of the fault (the type of fault leak or cable break), including the time and date the fault is registered.

## Key Advantages

- Scalable Management: Up to 25 FG-RELAYS devices can be managed by one FG-NET, allowing for a maximum of 600 (24x25) additional configurable relays. This significantly increases the possibilities for driving multiple external devices.
- Personalized Relay Activation: For each sensing cable, users can easily create a personalized list of relays to activate in case of a leak or cable break alarm.
- Seamless Monitoring: The FG-RELAYS is monitored by FG-NET via a standard Ethernet network. The connection between the panels is established through the existing TCP/IP network, eliminating the need for physical jumper cables or distance limits between panels.
- Status Alerts: FG-RELAYS device status can be viewed on the FG-NET digital unit. In case a device is disconnected, FG-NET displays an alarm, and the general relay is activated.
- Secure Configuration: FG-RELAYS is accessible via a secure web interface for configuring pairing codes, user and admin passwords, box name, and network parameters. (For detailed FG-RELAYS settings, refer to FG-NET Operation & Installation Manual, Chapter IV.)
- Versatile Relay Options: Each FG-RELAYS contains 24 configurable relays, with each relay featuring normal open (NO), normal close (NC), and common (COM) terminals.
- Discreet Design: FG-RELAYS shares the same enclosure and dimensions as the FG-NET Digital Unit. It does not have a display, allowing for discreet placement.

# FG-NET and its satellite devices



## Technical Data

<b>Compatibility</b>	Digital units: FG-NET, FG-NET-LL
<b>Dimensions &amp; Weight</b>	8.98" W x 11.93" H x 2.64" D (228 mm W x 303 mm H x 67 mm D) (same enclosure as FG-NET) Weight: 3.3 lbs (1.5 kg)
<b>Supply Voltage</b>	100-240 VAC, 50/60 Hz
<b>Current</b>	0.3 A (120 V), 0.16 A (230 V)
<b>Power Consumption</b>	36 VA Max
<b>Operating Temperature</b>	5°F to 131°F ( -15°C to 55°C)
<b>Case Type</b>	ABS flame retardant UL94V0
<b>Screen Size</b>	No screen
<b>Format</b>	Wall mounted
<b>Ingress Protection</b>	IP40 - Indoor use only
<b>IT Security</b>	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)
<b>Network</b>	10/100BASE-T; IPv4/IPv6
<b>Numbers of Relays</b>	24 configurable relays
<b>Relay Types</b>	Volt free dry contact (NO, NC, COM)
<b>Power Failure Relay</b>	Activated on loss of supply voltage
<b>Type of Faults Available on the Configurable Relays</b>	Leak, cable break
<b>Maximum Relay Switching Voltage</b>	125 VAC and 220 VDC
<b>Maximum Relay Switching Capacity</b>	60 W (30 V x 2A)

## Identification Codes

<b>FG-RELAYS F</b>	FG-NET's Satellite Device - 24 x External Relays (Wall Mounted) 100-240VAC
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## Certifications



The detailed FG-RELAYS settings refer to FG-NET Operation & Installation Manual chapter IV.  
All the connections in the FG-RELAYS must be done with the power supply switched off.

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