



- ▶ 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.

The FG-RELAYS is monitored by FG-NET via a standard Ethernet network. The FG-RELAYS is accessible via a web interface for configuration.

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 (to the nearest 1 metre) and details of the fault (the type of fault leak or cable break), including the time and date the fault is registered.

FG-RELAYS has the same enclosure and the same dimension as FG-NET Digital Unit. FG-RELAYS is not equipped with display so it can be discreetly located.

## Features & Benefits

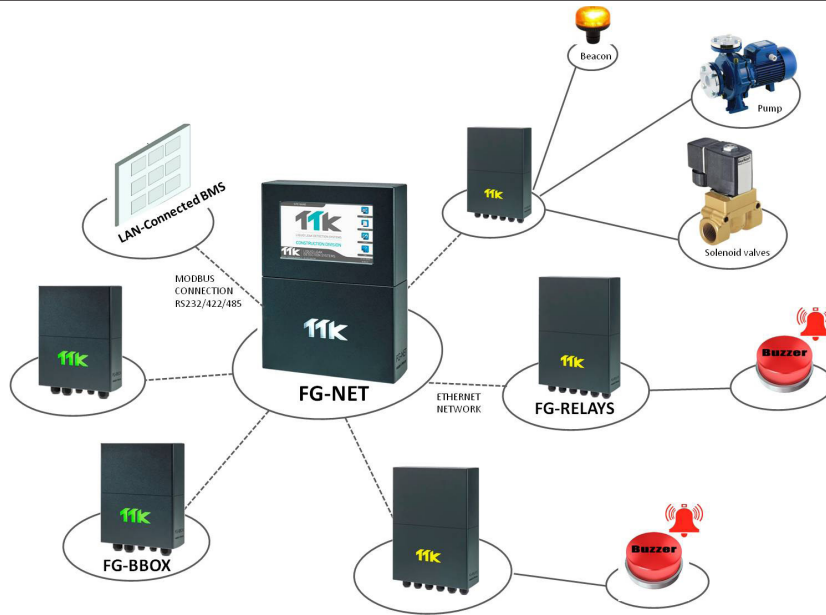
### FEATURES

- FG-RELAYS is accessible via a secure web interface to configure pairing codes, user and admin passwords, box name and network parameters. (For the detailed FG-RELAYS settings refer to FG-NET Operation & Installation Manual chapter IV.)
- Each FG-RELAYS contains 24 configurable relays. Every relay has a normal open (NO), a normal close (NC) and a common (COM) terminals.
- Up to 25 FG-RELAYS boxes can be managed by one FG-NET allowing for a maximum of 600 (24x25) additional relays.
- In case of leak or cable break alarm, external relays are configurable from FG-NET Digital Unit "Set up"- "Architecture" menu.
- In case of more than one FG-RELAYS boxes are connected on FG-NET, they are presented as FG-RELAYS #1, FG-RELAYS #2 and so on displayed on the FG-NET Digital Unit.

### BENEFITS

- In addition to the nine relays by default on the FG-NET Digital Unit, the numerous configurable external relays on FG-RELAYS give more possibilities to drive several external devices.
- For each sense cable, the user can create a list of relays to activate in case of leak or cable break alarm.
- The connection between FG-NET and FG-RELAYS is done through the existing TCP/IP network. Thus no physical jumper cable or distance limit between FG-NET unit and FG-RELAYS.
- FG-RELAYS box status can be viewed on the FG-NET Digital Unit. In case of box disconnected, FG-NET displays an alarm and the general relay is activated.

# FG-NET and its satellite devices



## Technical Data

<b>Compatibility</b>	Not a stand-alone unit, only to use with FG-NET digital unit
<b>Dimensions</b>	W: 228mm H: 303mm D: 67mm (same enclosure as FG-NET)
<b>IT Security</b>	TCP/IP connection (IPv4, IPv6) & MODBUS/JBUS Secure connection (Log-In Trap, HTTPS with TLS1.2, RFC 5280: X.509 (PKIC and CRL profile), IEEE 802.1X support, RADIUS or EAP-TLS)
<b>System Capacity</b>	Up to 25 FG-RELAYS + 25 FG-BBOX (refer to the FG-BBOX datasheet) can be connected to 1 FG-NET
<b>Supply Voltage</b>	100-240VAC 1.3A 50/60Hz
<b>Maximum Power Consumption</b>	50W
<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>Connectivity</b>	RJ45
<b>Maximum Switching Voltage</b>	125VAC and 220VDC
<b>Maximum Switching Capacity</b>	60W (30V x 2A)
<b>Ingress Protection</b>	IP40 – Indoor use only

## Identification Codes

<b>FG-RELAYS</b>	FG-NET's Satellite Device - 24 x External Relays (wall mounted) 100-240VAC
<b>FG-NET</b>	Digital Touchscreen Leak Detection Panel (wall mounted) 100-240VAC
<b>FG-BBOX</b>	FG-NET's Satellite Device - 2 Circuits Black Box (wall mounted) 100-240VAC

## Certificates



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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