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.

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 discretely located.
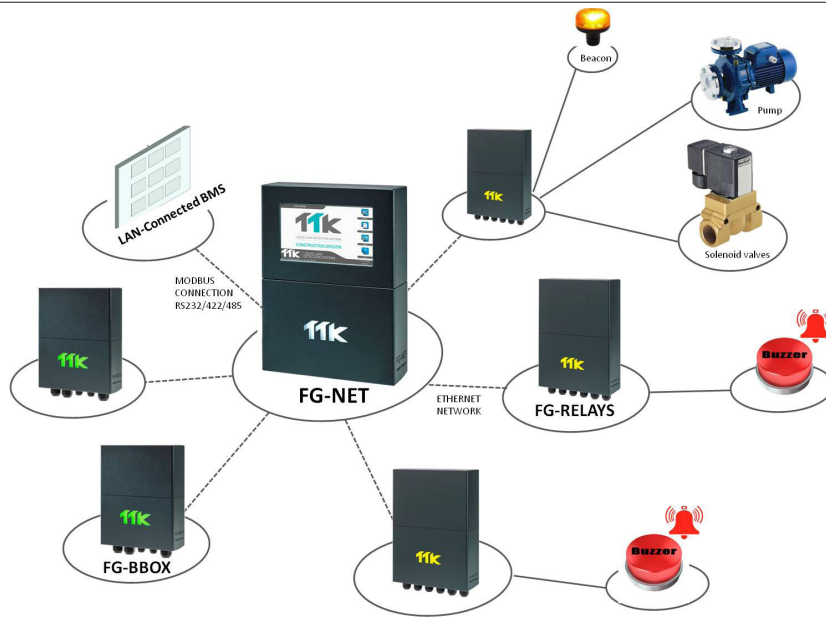
Features & Benefits

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

Compatibility	Not a stand-alone unit, only to use with FG-NET digital unit
Dimensions	W: 228mm H: 303mm D: 67mm (same enclosure as FG-NET)
IT Security	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)
System Capacity	Up to 25 FG-RELAYS + 25 FG-BBOX (refer to the FG-BBOX datasheet) can be connected to 1 FG-NET
Supply Voltage	100-240VAC 1.3A 50/60Hz
Maximum Power Consumption	50W
Working Temperature Range	-15°C to 55°C
Working Humidity Range	5% to 80% non-condensing
Relay Types	Volt free contact (NO, NC, COM)
Connectivity	RJ45
Maximum Switching Voltage	125VAC and 220VDC
Maximum Switching Capacity	60W (30V x 2A)
Ingress Protection	IP40 – Indoor use only

Identification Codes

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

Certificates

CE TÜV GS

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.