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
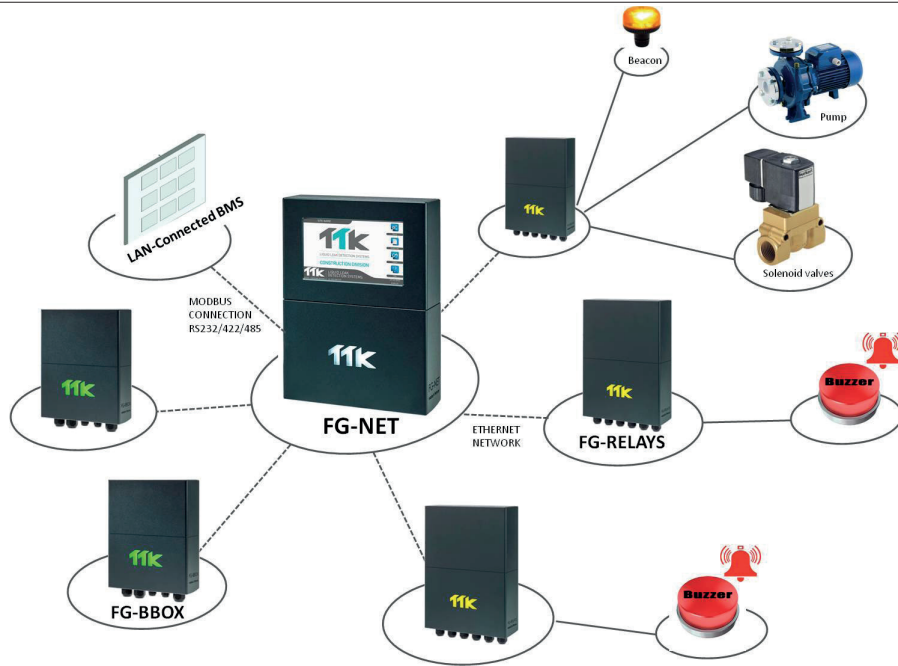
Description

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 (+/- 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

Compatibility	Digital units: FG-NET, FG-NET-LL
Dimensions & Weight	228 mm W x 303 mm H x 67 mm D (same enclosure as FG-NET) Weight: 1.5 kg
Supply Voltage	100-240 VAC, 50/60 Hz
Current	0.3 A (120 V), 0.16 A (230 V)
Power Consumption	36 VA Max
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
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 Realys	24 configurable relays
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	Leak, cable break
Maximum Relay Switching Voltage	125 VAC and 220 VDC
Maximum Relay Switching Capacity	60 W (30 V x 2A)

Identification Codes

FG-RELAYS F	FG-NET's Satellite Device - 24 x External Relays (Wall Mounted) 100-240VAC

Certifications

CE

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.