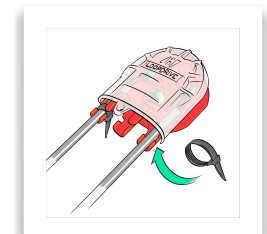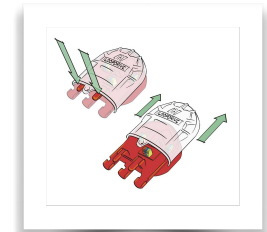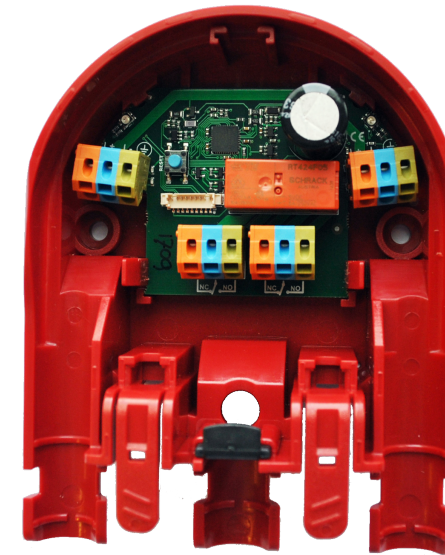# Field Remote Control Module - FIM-RC

NOTE	FIM-RC IS NOT EQUIPPED WITH ISOLATOR FUNCTION
DC Power supply (from LDB)	19 - 30 VDC, nominal 30 VDC
Volume override (from VACIE)	20kHz fade-in: 0,3s / fade-out: 1,s Default threshold: 5Vac Adjustable Threshold range: 3 - 17Vac
DC Power consumption	
idle current	100 µA continuous
max. power consumption	20mW
LOOP connection	
DC	30V
AC Voltage	100Vrms
AC Frequency range	40Hz - 20kHz (-3dB)
Wiring Loop	2-wire. Max. 2,5mm2 / Max. Loop length: 1000m
Pilots-tone	20kHz
T-Branch output	
2x relay contact	2x 2-pol change-over contact
max. AC switching load	2000W (230VAC/8A)
Grounding	optional earth loop through third connection pin
Mechanical	
Housing	PP plastic with transparent cover
Dimensions (WxHxD)	IP 21 housing, 110 x 130 x 55 mm (Basic) IP 33 extension included. 110 x 180 x 55 mm (Optional)
Ordering information. Part No.	
FIM-RC	1x IP21 housing with transparent cover and PCB
	1 x release tool / 1 x compression gland for speaker mounting
Certification and Approvals	
Complies with	n.a.
European patent	n.a.

The FIM-RC acts as a remote contact interface that can activate or deactivate a third party instrument or equipment that needs to be triggered during a live-broadcast of an evacuation event. The FIM-RC sits in the LOOP and receives the broadcast audio message. As soon as the broadcast audio message contains a 20kHz pilote-tone, the on-board relays of the FIM-RC will change state into 'override' mode. The state change is latched as long as the pilote-tone is received.

Depending on the function of the third party instrument or equipment, the FIM-RC offers two potential free NC and a NO switching contacts.
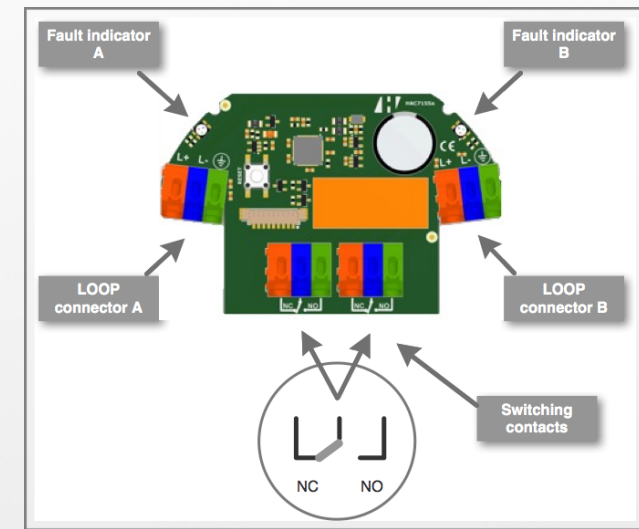
The Loopdrive - Fault Isolator Module (FIM) is the successor in our range of loudspeaker loop-isolator devices that are using our patent technology to deliver a higher level of security of evacuation loudspeaker lines that are installed according to the return-loop principle.

Detect - Locate - Isolate

FIM-RC QIG - V02R01

Quickguide

4EVAC Hacousto Holland bv - Industrieweg 87 - Berkel en Rodenrijs - Netherlands - www.4evac.com

*LOOP*DRIVE

Field Remote Control Module - FIM-RC

The FIM-RC is equipped with clearly market connectors. The FIM-RC has a LOOP -FEED and LOOP-RETURN connection that are not sensitive to feeding direction. LOOP has a DC-carrier for charging and communication purposes.
Please observe correct connectivity:
RED   = PHASE / PLUS
BLUE   = ZERO / MINUS

NOTE:
The T-Branch switching load is maximised to 2000W. .
The OVERRIDE signal must be sent together with any emergency message.
The override pilots-tone must be: 20kHz / 5Vrms (by default)

Detect - Locate - Isolate

The FIM-RC has two potential-free switching contacts that connect to third party instrument or equipment. Using these triggering relay contacts, a local source automatically overrides when emergency paging from the VACIE is applied or a local instrument can be energised. The FIM-RC is equipped with a power capacitor that is charged by the LDB and has enough capacity to operate at least two emergency cycles without the need for re-charging. The LED indicator(s) on the FIM-RC are flashing with intervals to indicate quiescent or fault condition. The FIM has two indicators that are related to the status of either LOOP-A or LOOP-B side (Loop feed). Please refer to the User and Installation manual V01R01 for detailed information on the various indications of these indicators.
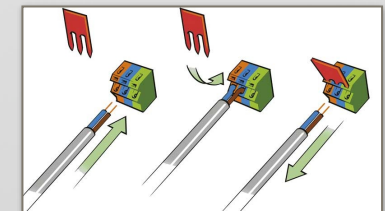
Trigger threshold adjustment:
Holding the reset button for 10-sec will force the FIM-RC in measurement state. (Fast blinking) In this state it measures any HF signal on the line (>16kHz) and sets it trigger threshold 2Vac above measured HF signal.

Confirmation of new setting: Alternate blinking of indicators BLUE (5s-Fast). Rejection of new setting: Alternate blinking of indicators: ORANGE (5s-Fast Activation at Threshold: Alternate blinking of indicators BLUE Slow
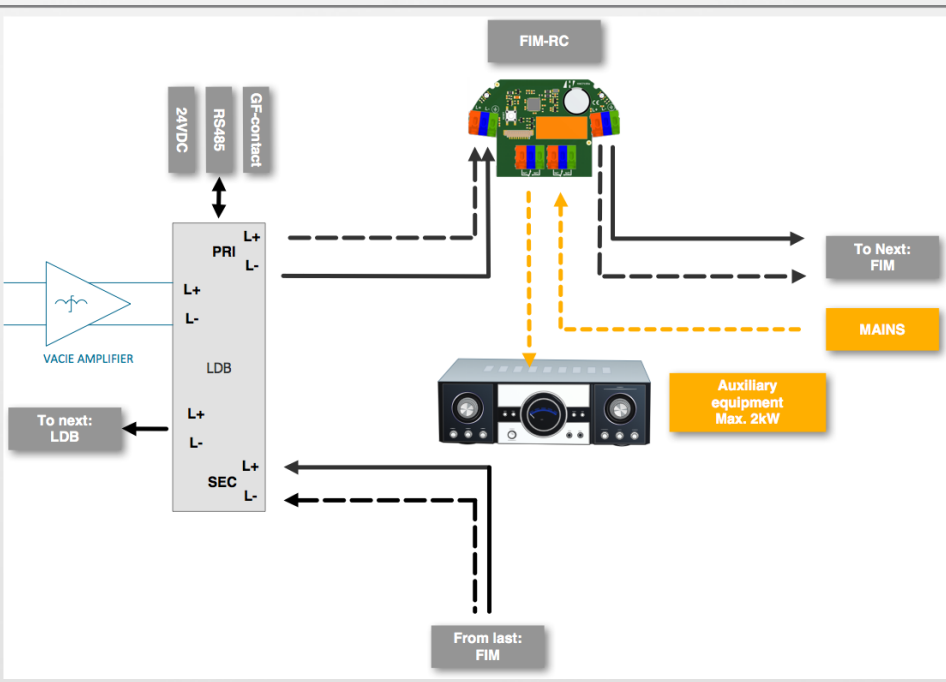
WAGO-quick-fit
The FIM is equipped with WAGO push-terminals that accept up to 2,5 mm$_2$ core installation cable. A special tool is provided to quickly remove all three wires in one run. (Release-tool is included)