

Alarm Box for MR3000TR

Description

The Alarm Box is a device designed by Bartec Syscom to interface the MR3000TR with external devices. In particular, it is dedicated to vibration surveys where alarms or other notifications are needed as soon as the pre-defined limit thresholds are exceeded. Typical external devices are gyrophares and sirens. The Alarm Box contains:

- relay terminals
- power management for relay terminals, with AC/DC converter
- external 3 meters connection cable between MR3000TR and Alarm Box, also called relay cable (PN: 81000580+).

In Figure 1, the connection scheme between the MR3000TR, the Alarm Box and the external devices is represented. The Alarm Box needs the following inputs:

- relay cable, that must be connected to the MR3000TR by means of the LEMO connector;
- AC power supply, 100-240 V. One of the cables provided by Bartec Syscom (for Swiss/Europe/USA power grid) can be selected.

The user can connect a maximum of two external devices to the Alarm box, by means of the cable glands. The dimensions of cable glands are shown in Figure 2, together with the dimensions of the entire Alarm Box.

The electrical scheme of the Alarm Box is visualized in Figure 3. The AC power is given to the relay terminals which are able to activate the external devices. The information concerning the pins of the relay cable is given in the table at the bottom left, while the information about the customer cables (that must be provided by the user for the connection with the external devices) is given in table at the top right. The Alarm Box and the relay cable are shown in Figure 4.

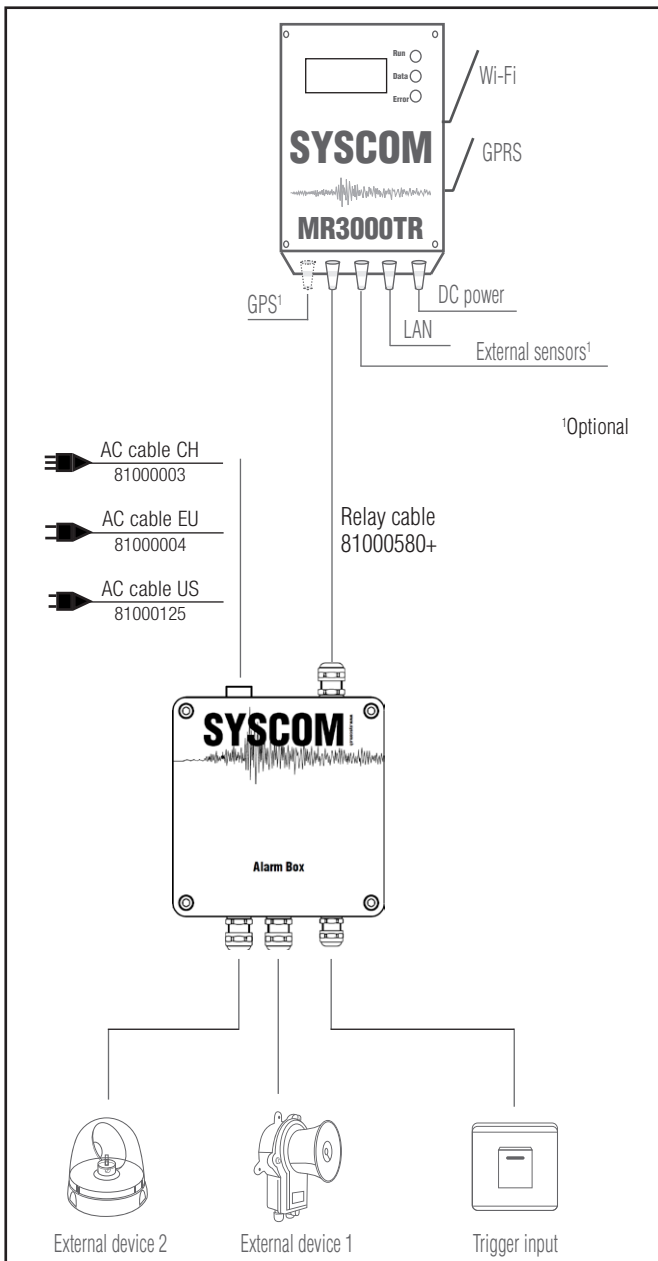


Figure 1. Connection scheme of the Alarm Box.

Technical characteristics of the Alarm box

Part number	14100200
Material	Polyester
Size	160 x 160 x 91 mm (without connectors) 160 x 207 x 91 mm (with connectors)
Inputs	Cable 81000580+ AC input: 100-240 V

Relay characteristics

Rated switching voltage	250 V AC
Max. switching voltage	400 V AC
Max. current	3 A total on the three contacts (limited by the 5A fuse)

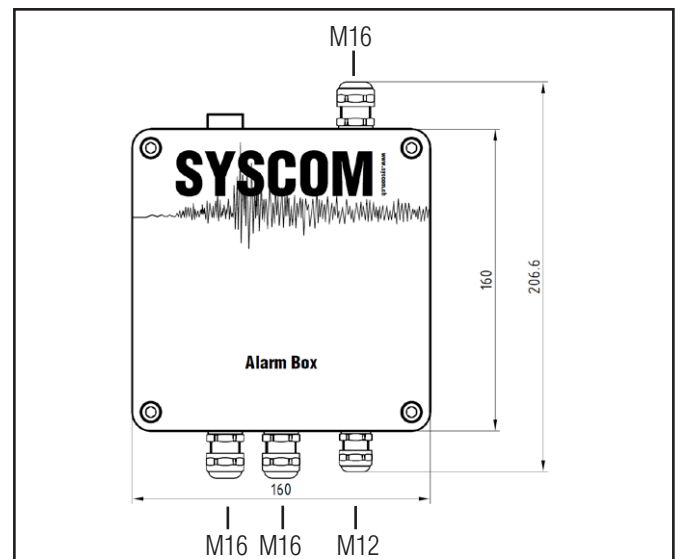


Figure 2. Mechanical scheme of the Alarm Box.

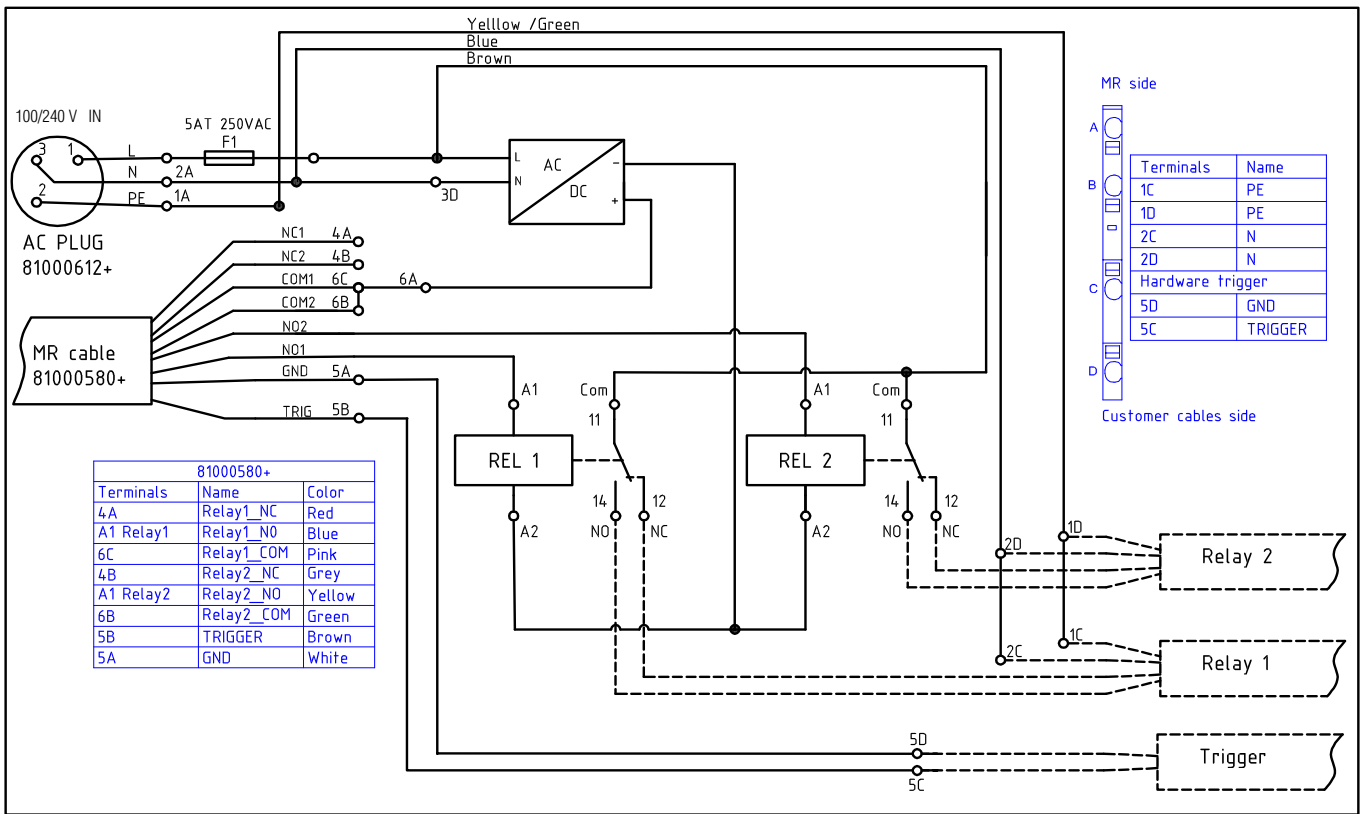


Figure 3. Electrical scheme of the Alarm Box.



Figure 4. Alarm Box with relay cable 81000580+.

Hardware trigger

The hardware trigger can be used to activate the trigger of the MR3000TR with an external device.

To start a trigger, the user should short the signal Trigger and GND.

It is important not to apply any input voltage on the trigger signal, in order not to damage it.

About BARTEC SYSCOM

SYSCOM Instruments SA is a subsidiary of BARTEC GROUP, a multinational manufacturer of industrial safety equipment. SYSCOM Instruments SA is a leading provider of vibration and seismic monitoring equipment for civil engineering and safety related markets, especially for NPP and LNG plants.