

#### Description

With our radio transceiver EFB-TR2, the user gets a system which can be used immediately. It is very versatile and can be reconfigured at any time.

The desired mode of operation is set quickly and conveniently via an optional programming adapter using our MS Windows software tool.

The software can be downloaded for free after registration in our customer portal on [www.elseco.eu](http://www.elseco.eu).

The power supply is 12V DC, 24V DC or 230V AC. The transceiver is available with an internal antenna or optionally with a BNC or TNC socket for connecting an external antenna. Different antennas are available.

#### Function

There are 2 channels available. One channel can be used for radio link monitoring and error monitoring. In normal operation this contact is active and drops out in case of an error. Thus, the function of the system can be monitored externally. If an output is used as a normal switching output for signal transmission, it can be programmed so that it either remains unchanged or drops out in the event of an error. A switching output can also be provided with a timer function (0.01 sec. to 18.2 hrs.).

Both relay contacts are intrinsically safe (when used as NO contacts).

The radio transceivers can be used for the following applications: point-to-point, broadcast (1 transmitter several receivers) or 2 groups with max. 8 devices in each network group.

#### Programming

Using the optional programming adapter EFB-PA-TR1 (9-pin D-Sub RS232 interface) and connecting cable EFB-PA-TR1-K30 the transceiver can be programmed via MS Windows PC software.

Microsoft Windows XP or later is required.

#### Technical data

Frequency band	868 MHz (different frequency channels on request) Standard frequency 869.85 MHz
Transmission power	20 mW (13 dBm), range up to max. 400m in free field (depending on the antennas used)
Housing	Housing for surface mounting with cable glands PS130: 94x130x57mm (W x H x D) Housing for DIN rail mounting (35mm rail) UM72 (approx. 97mm wide)
Protection class (only in PS housing)	IP66 (with internal antenna or TNC-socket) IP40 (with BNC-socket)
Progr.-connection	10 pin connector (for EFB-PA-TR1-K30)
Inputs	selectable via pluggable jumper or solder bridge: 2x for potential-free contact (switching current approx. 1...2mA, contacts must be designed for this purpose) or 2x digital signal 5...24V DC (current approx. 0.2...2mA) both inputs are galvanically isolated
Outputs	2 changeover contacts 250V/4A AC
Power supply	12V DC $\pm 10\%$ , power consumption max. approx. 65mA 24V DC $\pm 10\%$ , power consumption max. approx. 50mA 230V AC, 50/60Hz, max. 1.5VA
Operating temperature	-10...+50°C
Options	BNC- or TNC-socket for antenna

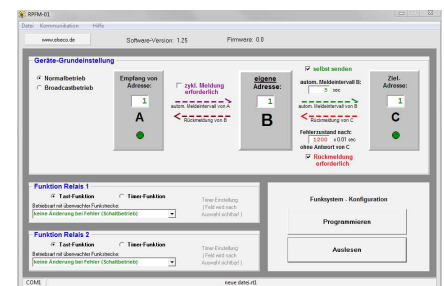
for customised versions, please ask!



Radio switching transceiver EFB-TR2-PS130



Radio switching transceiver EFB-TR2-UM72



Software user interface