![Martin.Care – Sicherheitssysteme für das Gesundheitswesen logo]

Data sheet
V100-414   Receiving unit | HF | TCP/IP | Plug-and-socket power supply unit

Description

The receiving unit works together with a reading unit and transponders. The reading unit (LF) generates a spherical electromagnetic detection field. This "wakes up" sleeping transponders from their stand-by mode as soon as they are brought into the field. At the same time, the reading unit transmits its identification number (LF-ID) to the transponder. The transponder in the field sends its own identification number (Tag-ID) as well as the received LF-ID to the receiving unit (HF). The received data is processed and sent from the receiving unit via potential-free contacts to the in-house nurse call system or mobile PPE/DECT systems. HF dependencies can be realised by external devices (reed contacts, etc.). TCP/IP for network solution included.

Data table

Dimensions **PCB HF** (WxHxD)	80 x 100 x 19 mm
Power supply	10-36 V (DC)
Current consumption at 12V DC	100 mA (with X-port connected up to 200 mA)
Current consumption at 24V DC	50 mA (with X-port connected up to 100 mA)
Frequency	868 MHz communication frequency
Weight	63 g
Connections	3 x relay
	RF module slot (RFM 22/23)
	2 x optocoupler inputs, X3.10, X3.11
Dimensions **TCP/IP (X-Port)** (WxHxD)	33.9mm x 14.5mm x 18.3mm
Weight TCP/IP plug-on board	14 g
Operating temperature	-40°C to +85°C normal mode / -40 to +75°C high performance mode
Power supply	3.3V
Ser. Speed	921,600 baud
Housing dimensions (WxHxD)	230 x 143 x 34.5 mm
Total weight	459 g
Degree of protection	IP 42 - not suitable for outdoor installation
Housing colour	RAL 9010 white (OEM version); RAL 7016 anthracite
Material	ABS PA 765
Cable inlets	Several predetermined breaking points for cable inlets available

X1.1	+ 10-36V		X2.1	K3 Schließer
X1.2	GND		X2.2	K3 Pol
			X2.3	K3 Öffner
X6.1	!MCLR		X2.4	K2 Öffner
X6.2	+ 5V		X2.5	K2 Pol
X6.3	GND		X2.6	K2 Schließer
X6.4	SD		X2.7	K1 Öffner
X6.5	SC		X2.8	K1 Pol
			X2.9	K1 Schließer

X3.1	+5V
X3.2	Out1
X3.3	Out2
X3.4	Out3
X3.5	Out4
X3.6	Out5
X3.7	Out6
X3.8	Gnd
X3.9	opto -
X3.10	optoin 1
X3.11	optoin 2
X3.12	+5V

JP1	gesetzt: Beeper ist aktiv
JP2	gesetzt: Relais K3 ist aktiv
E1	LED (grün) 3,3Volt
E2	LED (grün) HF-Aktivität
E4	LED (orange) Störung/Service
SW1	DIP-Schalter 8-stellig
SW2	DIP-Schalter 8-stellig
S1	Programmierungstaste
S2	Programmierungstaste

X5.0	nicht belegt
X5.1/X5.2	Sub-B/C/E Steckmodul
X5.0.3/X5.1.3	GND

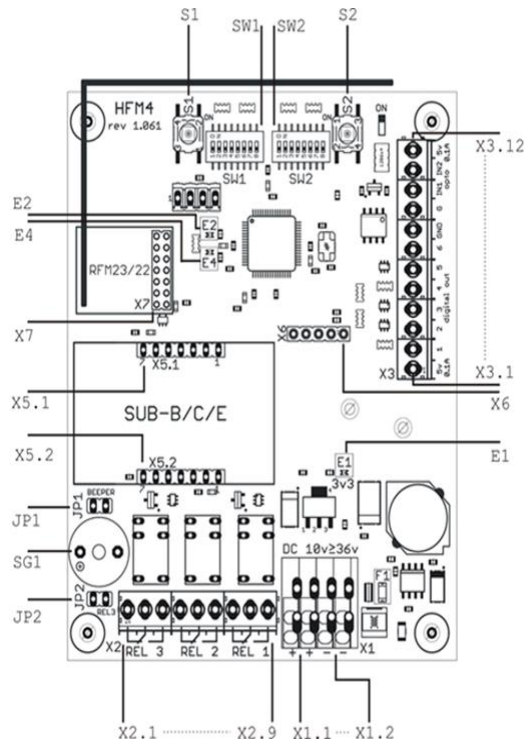|	
SG1	Signalgeber
X7	Steckplatz für RF-Modul(RFM22/23)

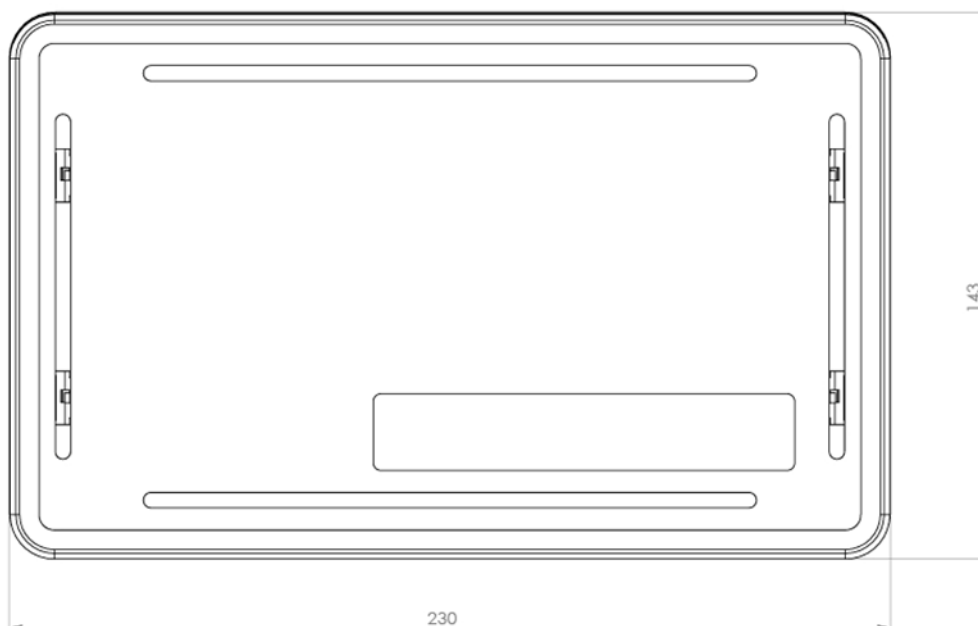*Figure 1 Sketch HF board*

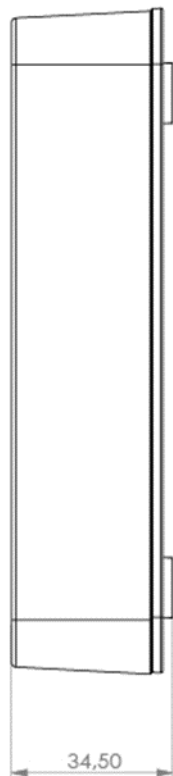*Figure 1 Sketch housing front view*

Figure 2 Sketch housing front view

Martin Elektrotechnik GmbH hereby declares that the article V100-414 is in conformity with Directives 2014/53/EU, 2014/35/EU, 2014/30/EU. The full text of the EU Declaration of Conformity is available at the following website: https://martin-elektrotechnik.freshdesk.com/support/solutions