

# 1 FBUD ... / 1 FBVD ... Base Station



## Features and Functions

- 1 voice connection possible
- Configuration of up to 16 channels, 1 channel is preset
- Transmitting power of up to 25 W
- Carrier-controlled communication
- Busy signaling when frequency is used
- Available as VHF or UHF version

The base station of the 1 FBUD ... / 1 FBVD ... series is used as interface between radio devices and the INDUSTRONIC communication and public address system with digital interfaces. It is possible to establish a voice connection from an intercom station to a subscriber with a handheld or mobile radio. The base station can be installed at a remote location in proximity to the antenna.

Depending on the application, the base station is either equipped with a radio device for the 70 cm UHF range (DM1400/EU UHF) or the 2 m VHF range (DM1400/EU VHF). This radio device can be used in private PMR networks. Prior to commissioning, a license for the use of frequencies must be acquired from the corresponding national authority.

### Components

- Radio device
- Control unit
- Digital I/O board
- AC power supply or DC/DC converter

### Optional

- AC power supply
- 60 VDC power supply via INDUSTRONIC system

### Mechanical Data

- |                          |   |
|--------------------------|---|
| • Width x height x depth | 203 mm x 244 mm x 196 mm<br>(7,99" x 9.61" x 7.72") |
| • Housing material       | Aluminum  |
| • Weight                 | Approx. 5 kg (approx. 11.02 lbs)                    |

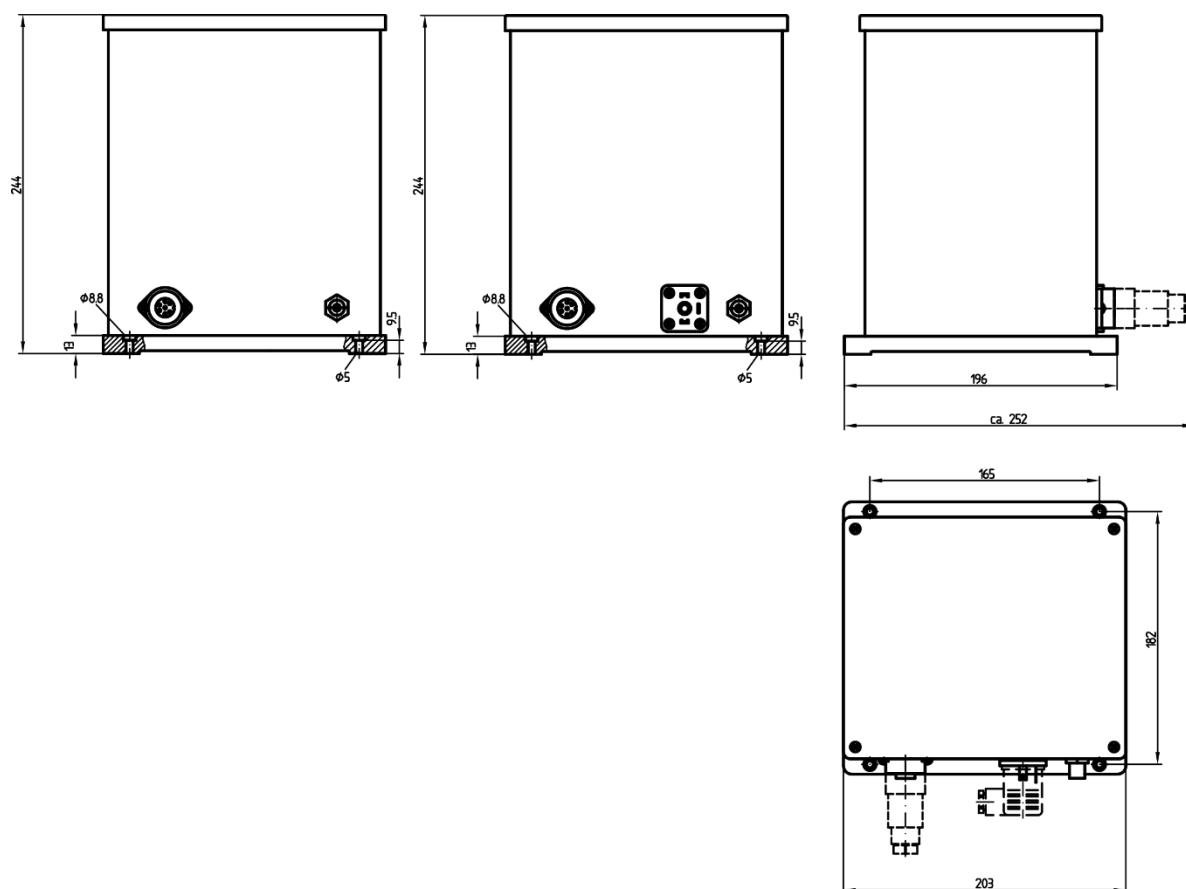


Fig. 1: Dimensional drawing 1 FBU / 1 FBV

#### General Electrical Data

- |                         |                   |
|-------------------------|-------------------|
| • Operating voltage VDC | 60 VDC            |
| • Operating voltage VAC | 110 VAC / 230 VAC |

#### Electrical Data of Radio Device

- |                       |   |   |
|-----------------------|---|---|
| • Frequency range     | VHF: 146 MHz to 174 MHz,<br>UHF: 403 MHz to 470 MHz |   |
| • Channel spacing     | 12.5 kHz / 20 kHz / 25 kHz                          |   |
| • Frequency stability | +/- 2.5 PPM   |   |
| • Antenna impedance   | 50 Ohms   |   |
| Transmitter           | • Transmitting power                                | Adjustable: 1 W to 25 W   |
|                       | • Modulation limiting                               | +/- 2.5 kHz at 12.5 kHz,<br>+/- 4.0 kHz at 20.0 kHz,<br>+/- 5.0 kHz at 25.0 kHz |
| Receiver              | • Receiver sensitivity                              | < 0.3 $\mu$ V (12 dB SINAD)   |
|                       | • Intermodulation (ETS)                             | > 65 dB   |

### Environmental Requirements and Standards

• Ambient temperature during operation	-20 °C to +55 °C (-4 °F to +131 °F) (IEC 68-2-1/2)
• Relative humidity (non-condensing)	93 % (IEC 68-2-3)
• Degree of protection of radio device inside the housing	IP65
• Standards	EN 300 086 EN 300 113 EN 300 219 EN 301 489-1 EN 301 489-5 EN 62368-1

Type Overview	Operating Voltage	Frequency Range	Type	Type Number
	110/230 VAC	403 MHz to 470 MHz	1 FBUD 01	380-799-148
		136 MHz to 174 MHz	1 FBVD 01	380-799-149
		-	1 FBxD 01	380-799-150
	36 VDC to 72 VDC	403 MHz to 470 MHz	1 FBUD 02	380-799-151
		136 MHz to 174 MHz	1 FBVD 02	380-799-152
		-	1 FBxD 02	380-799-153

### INDUSTRONIC®

Industrie-Electronic GmbH & Co. KG  
Carl-Jacob-Kolb-Weg 1  
97877 Wertheim / Germany

Tel.: +49 9342 871-0  
Fax: +49 9342 871-565

info@industronic.de  
www.industronic.com