

10 / 16 FKUD .. & 10 / 16 FKVD ..

Crane Station



Features and Functions

- Robust crane station for stationary or mobile use in industrial environments
- 10 or 16 configurable direct call keys
- Configuration of up to 16 channels, 1 channel is preset
- 2 external, freely configurable control inputs
- Available as VHF or UHF version
- 2 configurable control outputs

INDUSTRONIC crane stations ensure flexible wireless communication in industrial environments. They are easy to operate, extremely robust and can be easily integrated into an already existing PMR network. They can also communicate with an INDUSTRONIC communication system.

The dynamic microphone and the premium speaker ensure superior quality of voice transmission and enable clear communication, even at high ambient noise levels.

Design

The crane station of the 10 / 16 FKUD .. or 10 / 16 FKVD .. series consists of a crane operator station and a radio device which is installed in a separate housing (control unit). The crane operator station provides 10 momentary switches or 16 membrane keys, a microphone, and a speaker module.

Depending on the application, the control unit 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.

Two inputs and two outputs as well as one external AF output are pre-wired at external terminals of the control unit. The inputs can be used for potential-free contacts, e.g. for a foot switch. One control output can be used together with an AF output to activate an external amplifier. The second output can be used to activate a flashing beacon, for example.

Call Control and Configuration

Selective calling (5-tone calling) and/or dual-tone multi-frequency (DTMF) can be used for call control. The configuration is performed by INDUSTRONIC using a standard PC and the parameters are permanently stored in the crane station.

Other Features

- Call storage configurable for each control unit
- Transmitting power of up to 25 W
- Interface to INDUSTRONIC systems
- One audible signal generator and two audible signal analyzers can be configured for each key
- Key or control input can be configured with the function "repeat call/ talk back"
- 1 separate AF output

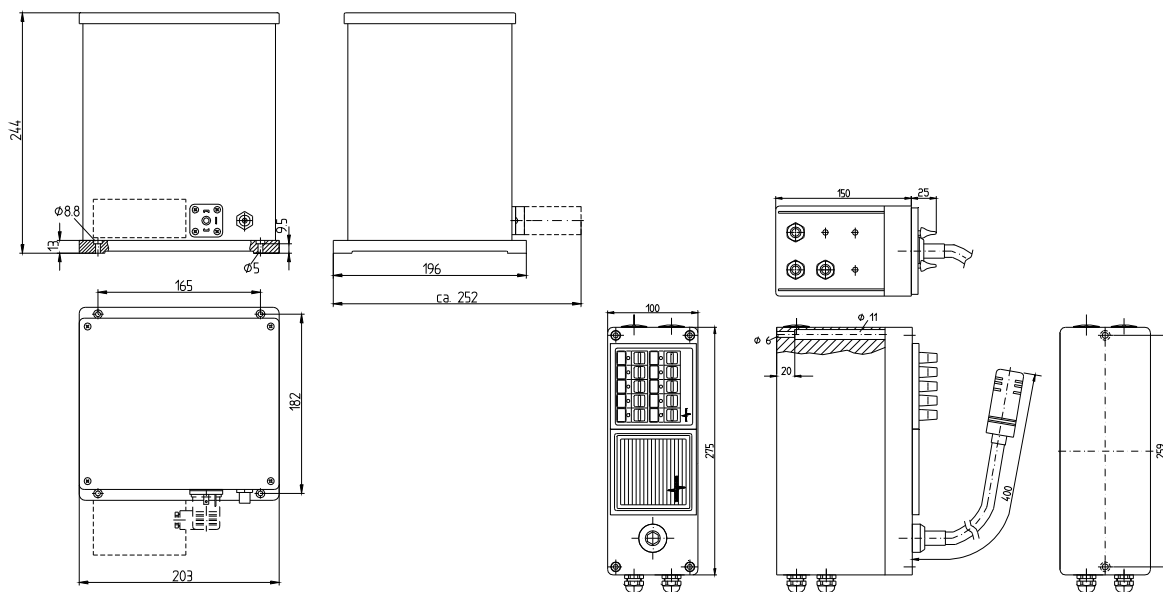


Figure: Dimensional drawing 10 / 16 FKUD .. or 10 / 16 FKVD ..

Mechanical Data Crane Operator Station

- Height x width x depth 100 mm x 275 mm x 150 mm (3.9" x 10.8" x 5.9")
- Housing material Glass-fiber reinforced polyester
- Weight Approx. 3.6 kg (approx. 7.9 lbs)
- Cable length 8 m

Mechanical Data Housing of Control Unit

- Height x width x depth 244 mm x 203 mm x 196 mm (9.6" x 8" x 7.7")
- Housing material Aluminum
- Weight Approx. 5 kg (approx. 11 lbs)

Electrical Data

| | |
|-----------------------------|--|
| • Operating voltage | 110 VAC / 230 VAC 24 VDC |
| • Microphone | Noise-canceling with dynamic compression |
| • Microphone amplifier | Amplifier with compressor |
| • Loudspeaker | Max. 1 W / 8 Ohms |
| • 5-tone selective calling | ZVEI 1 |
| • Dual-tone multi-frequency | DTMF |

Electrical Data Radio Device in Control Unit (DM1400 UHF / DM1400 VHF)

| | |
|-------------------------|---|
| • Transmitting power | Adjustable 1 W to 25 W |
| • Frequency range | VHF: 146 MHz to 174 MHz UHF: 403 MHz to 470 MHz |
| • Channel spacing | 12.5 kHz / 20 kHz / 25 kHz |
| • Modulation limiting | +/- 2.5 kHz at 12.5 kHz +/- 4 kHz at 20 kHz +/- 5 kHz at 25 kHz |
| • Receiver sensitivity | <0.3 μ V (12 dB SINAD) |
| • Intermodulation (ETS) | >65 dB |
| • Frequency stability | +/- 2.5 PPM |
| • Antenna impedance | 50 Ohms |
| • EC directive | 1999/5/EC |
| • Standards | EN 300086 EN 301489 01/05 EN 60950 EN 300113 |

Environmental Requirements and Standards

| | |
|------------------------|---|
| • Degree of protection | Crane operator station: IP40 Control unit: IP65 |
| • Temperature range | -20 °C to +70 °C (IEC 68-2-1/2) (-4 °F to +158 °F) |
| • Relative humidity | 93 % (IEC 68-2-3) |

| Series Overview Chart | Keys | Operating Voltage | Frequency Range | Type | Type Number |
|-----------------------|------|-------------------|-----------------|------------|-------------|
| | 10 | 110/230 VDC | 403 – 470 MHz | 10 FKUD 01 | 380-799-176 |
| | 10 | | 136 – 174 MHz | 10 FKVD 01 | 380-799-177 |
| | 10 | | - | 10 FKxD 01 | 380-799-178 |
| | 10 | 22 – 32 VDC | 403 – 470 MHz | 10 FKUD 02 | 380-799-179 |
| | 10 | | 136 – 174 MHz | 10 FKVD 02 | 380-799-180 |
| | 10 | | - | 10 FKxD 02 | 380-799-181 |
| | 16 | 110/230 VDC | 403 – 470 MHz | 16 FKUD 01 | 380-799-182 |
| | 16 | | 136 – 174 MHz | 16 FKVD 01 | 380-799-183 |
| | 16 | | - | 16 FKxD 01 | 380-799-184 |
| | 16 | 22 – 32 VDC | 403 – 470 MHz | 16 FKUD 02 | 380-799-185 |
| | 16 | | 136 – 174 MHz | 16 FKVD 02 | 380-799-186 |
| | 16 | | - | 16 FKxD 02 | 380-799-187 |

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