



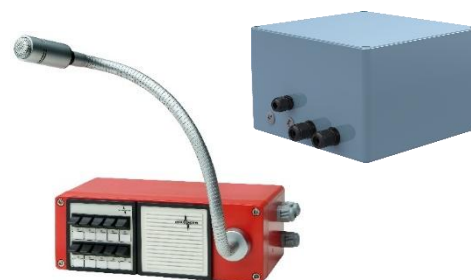
10/16 WCT 0x1

## CRANE STATION

### FLEXIBLE WIRELESS COMMUNICATION IN INDUSTRIAL ENVIRONMENTS

The crane station is easy to operate, extremely robust and can be easily integrated into an already existing wireless network. It can also communicate with an INDUSTRONIC system.

The crane station consists of a wireless device and a crane operator station with a microphone, a speaker and a keypad. The noise-compensated electret microphone with electronic dynamic compression and the premium speaker ensure superior quality of voice transmission, even at high ambient noise levels.



- Robust crane station for stationary or mobile use in industrial environments
- Crane operator station with 10 or 16 configurable direct call keys
- Configuration of up to 16 communication channels, 1 channel is preset
- 2 external, freely configurable control inputs
- 2 configurable control outputs
- Control unit with wireless device available as VHF or UHF version
- Can be configured via INTRON-X Service Tool

### OTHER FEATURES

Call storage configurable

Interface to INDUSTRONIC systems

One audible signal generator and two audible signal analyzers can be configured for each key

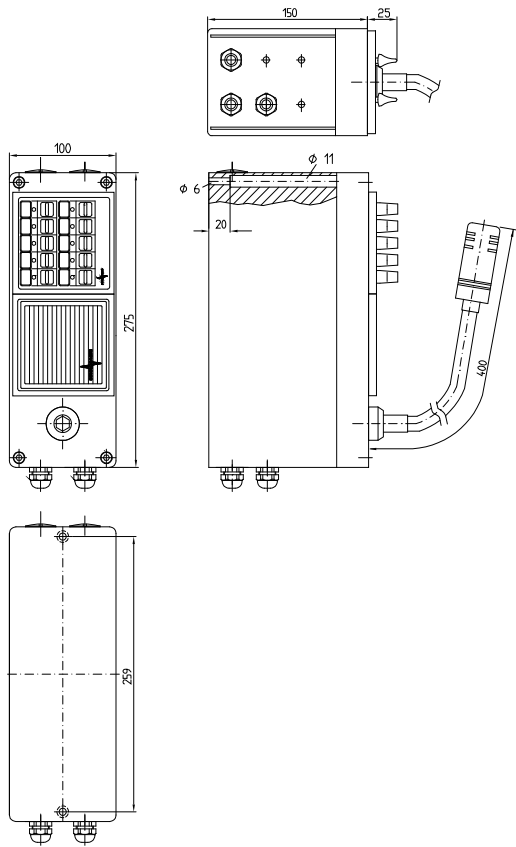
Key or control input can be configured with the function "repeat call/talk back"

1 separate audio output with control line for controlling an external amplifier

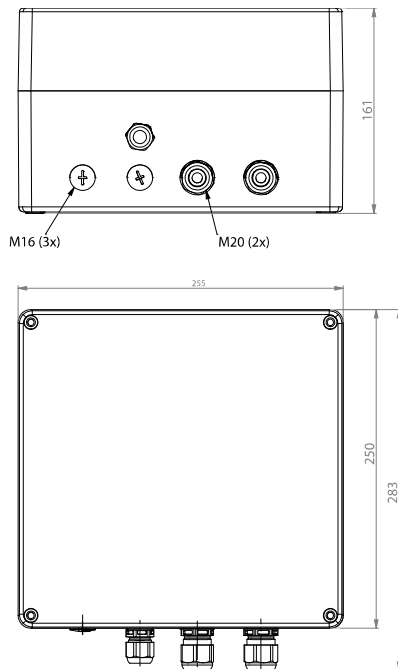


## DIMENSIONS

### CRANE OPERATION STATION



### CONTROL UNIT



## MECHANICAL DATA

### Crane operator station

|                        |                                                      |
|------------------------|------------------------------------------------------|
| Width x height x depth | 275 mm x 100 mm x 150 mm<br>(10.83" x 3.94" x 5.91") |
| Housing material       | Glass-fiber reinforced polyester                     |
| Weight                 | Approx. 3 kg (approx. 6.61 lbs)                      |

### Housing of control unit

|                        |                                                      |
|------------------------|------------------------------------------------------|
| Width x height x depth | 255 mm x 161 mm x 250 mm<br>(10.04" x 6.34" x 9.84") |
| Housing material       | Polyester                                            |
| Weight                 | Approx. 7 kg (approx. 15.43 lbs)                     |

## ELECTRICAL DATA

### General

|                          |                                                                           |
|--------------------------|---------------------------------------------------------------------------|
| Operating voltage        | 110 V AC / 230 V AC                                                       |
| Microphone               | Noise-compensated electret microphone with electronic dynamic compression |
| Speaker                  | Max. 1 W / 8 Ohms                                                         |
| 5-tone selective calling | ZVEI 1                                                                    |

### Control Unit

|                       |                                                                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Transmitting power    | Adjustable 1 W to 25 W                                                                                                                        |
| Frequency range       | VHF: 152 MHz to 168 MHz<br>UHF: 406 MHz to 440 MHz                                                                                            |
| Channel spacing       | 12.5 kHz / 20 kHz / 25 kHz                                                                                                                    |
| Modulation limiting   | +/- 2.5 kHz at 12.5 kHz<br>+/- 4 kHz at 20 kHz<br>+/- 5 kHz at 25 kHz                                                                         |
| Receiver sensitivity  | <0.3 $\mu$ V (12 dB SINAD)                                                                                                                    |
| Intermodulation (ETS) | >65 dB                                                                                                                                        |
| Frequency stability   | +/- 2.5 PPM                                                                                                                                   |
| Antenna impedance     | 50 Ohms                                                                                                                                       |
| Inputs                | 2 x<br>for reading in potential-free contacts, e.g. a foot switch contact                                                                     |
| Outputs               | 2 x<br>for controlling external peripherals, e.g. for connecting a flashing warning beacon                                                    |
| Audio output          | 1 x<br>with corresponding control line for controlling an external amplifier whose operational readiness is evaluated via an additional input |

## ENVIRONMENTAL REQUIREMENTS AND STANDARDS

|                                      |                                                                                                  |
|--------------------------------------|--------------------------------------------------------------------------------------------------|
| Ambient temperature during operation | -30 °C to +60 °C<br>(-4 °F to +131 °F)                                                           |
| Relative humidity (non-condensing)   | Max. 90 %                                                                                        |
| Degree of protection                 | Crane operator station: IP40<br>Control unit: IP65                                               |
| Standards                            | EN 300 086<br>EN 300 113<br>EN 300 219<br>EN 301 489-1<br>EN 301 489-5<br>EN 62368-1<br>EN 62311 |

## TYPE OVERVIEW

**Please note:** Depending on the application, a wireless device for the 70 cm UHF range (DM1400/EU UHF) or the 2 m VHF range (DM1400/EU VHF) is selected. This crane station is used in private PMR networks. Prior to commissioning, a license for the use of frequencies must be acquired from the corresponding national authority.

| Operating Voltage | Keys | Frequency Range    | Description               | Type       | Type Number |
|-------------------|------|--------------------|---------------------------|------------|-------------|
| 110/230 V AC      | 10   | 406 MHz to 440 MHz | Wireless Crane Terminal U | 10 WCT 001 | 380-022-100 |
|                   |      | 152 MHz to 168 MHz | Wireless Crane Terminal V | 10 WCT 011 | 380-022-200 |
|                   |      | -                  | Wireless Crane Terminal X | 10 WCT 021 | 380-022-300 |
| 110/230 V AC      | 16   | 406 MHz to 440 MHz | Wireless Crane Terminal U | 16 WCT 001 | 380-022-400 |
|                   |      | 152 MHz to 168 MHz | Wireless Crane Terminal V | 16 WCT 011 | 380-022-500 |
|                   |      | -                  | Wireless Crane Terminal X | 16 WCT 021 | 380-022-600 |

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