

DAX 004

Digital Outdoor Intercom Station for Ex-Zone 2 / 22



Main features


- Modular design for easy maintenance
- Up to 3 twin keys, free of wear, to set up communication links
- Call or busy signal by light emitting diodes
- Noise compensated microphone with dynamic compression
- Microphone sensitivity and volume control continuously adjustable
- Potential-free relay point

The DAX 004 intercom stations are part of the INDUSTRONIC communication and public address system with digital interfaces. They are especially designed for the use in hazardous areas of zone 2 and zone 22.

Approval:

IBExU 06ATEXB014X

Equipment category:

 II 3GD

Types of protection:

Ex nAC IIC T4 (EN / IEC 60079-15)

Ex tD A22 IP65 T100°C (EN / IEC 61241)

Explanation:

nAC	Non-sparking at normal operation, contacts are suitably protected
IIC	For explosive atmospheres of all gas groups (IIA, IIB, IIC)
T4	Device temperature <130 °C
tD A22	Dust ignition protection, suitable for Ex zone 22
T100°C	Surface temperature <100 °C

Components

- Two-part glass fiber reinforced polyester housing, hardly inflammable
- Housing with connection board
- Plug in front unit with all functional parts including microphone and loud-speaker
- Electronics unit 6 DSA
- Color RAL 3000 (red)

Options

- Type DAX 004/25 with booster amplifier 25 DVA

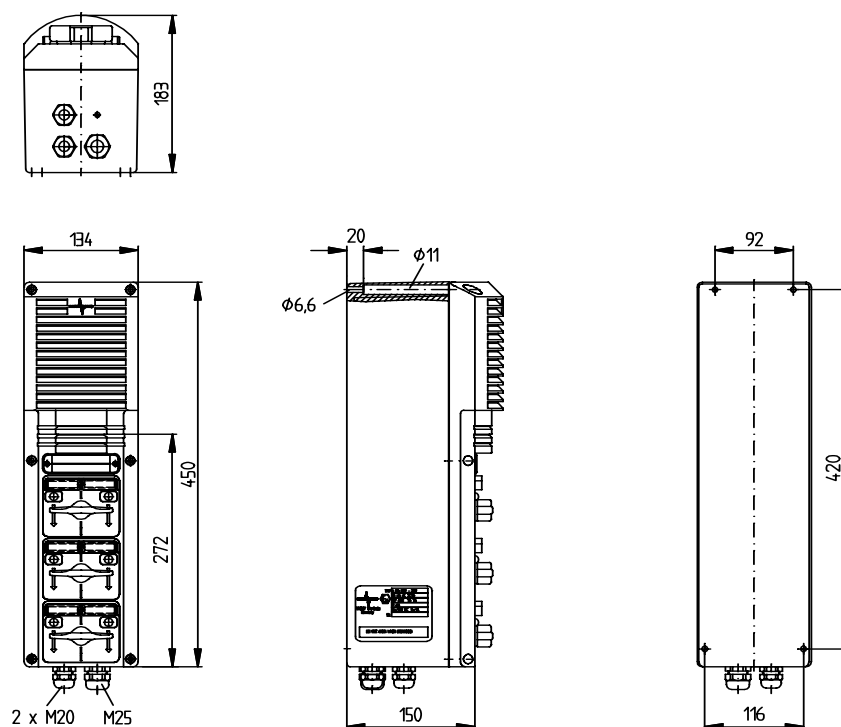


Figure 1: Dimensional drawing DAX 004

Mechanical data

- | | |
|--------------------------|---|
| • Height x width x depth | 450 mm x 134 mm x 183 mm
(17 3/4" x 5 1/4" x 7 1/4") |
| • Cable glands | 1 x M25 + 2 x M20 |
| • Weight | ca. 4.5 kg (approx. 10 lb) |

Electrical data intercom station

- | | |
|---|------------------------------|
| • Operating voltage range | 42 VDC to 68 VDC |
| • Quiescent & max. current consumption | 20 mA, 100 mA |
| • Sound pressure level (distance 30 cm (12")) | 115 dB |
| • Frequency range | 300 Hz to 3400 Hz |
| • Loudspeaker | 15 W / 8 ohm |
| • Relay | 60 VDC / 30 VAC; 0.5 A; 20 W |

Electrical data booster amplifier

- | | |
|--|------------------|
| • Operating voltage range | 42 VDC to 68 VDC |
| • Quiescent & max. current consumption | 60 mA / 850 mA |
| • Output power | 25 W / 400 ohm |

Environmental requirements and standards

• Ambient temperature	-40 °C to +55 °C (-40 °F to 131 °F)
• Storage temperature	-40 °C to +55 °C (-40 °F to 131 °F)
• Degree of protection	IP65
• EMC	IEC / EN 61000-6-2 IEC / EN 61000-6-4
• Max. ambient noise level	110 dB

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