

NRO 001

IP Outdoor Intercom Station



Features and Functions

- Robust construction for use in harsh industrial environments
- Degree of protection IP66
- Glass-fiber reinforced polyester
- Up to 3 momentary rocker switches
- Designed for use with industrial gloves
- Visual call or busy status via LED
- Network connection via Ethernet
- PoE or external power supply
- Adjustable speaker volume and microphone sensitivity
- Monitoring of microphone function

The weather-proof IP outdoor (harsh environment) intercom stations of the NRO 001 series are part of the INTRON-D *plus* communication and public address system from INDUSTRONIC. They are especially designed for areas with dirt and dust and can be easily integrated into existing network environments.

You can either use an optional 25-W booster amplifier to activate an external speaker or 1 control line output for the connection of a flashing warning beacon, for example.

The integrated web interface simplifies commissioning and service work. It can be remotely accessed and easily operated via a standard web browser.

Accessories Available

- 25-W booster amplifier, external power supply necessary (for example PSO 110-230/48/1 in a separate box)
- Acoustic hood
- Free-standing mounting post

Mechanical Data

- | | |
|--------------------------|--|
| • Width x height x depth | 141 mm x 484 mm x 171 mm (5.6" x 19" x 6.8") |
| • Cable glands | 2 x M20 (cable diameter: 5.5 mm to 13 mm)
1 x M25 (cable diameter: 8 mm to 17 mm) |
| • Weight | Approx. 5 kg (approx. 11 lbs) |
| • Color | RAL 2004 (Pure Orange) |
| • Housing | Glass-fiber reinforced polyester, hardly inflammable |

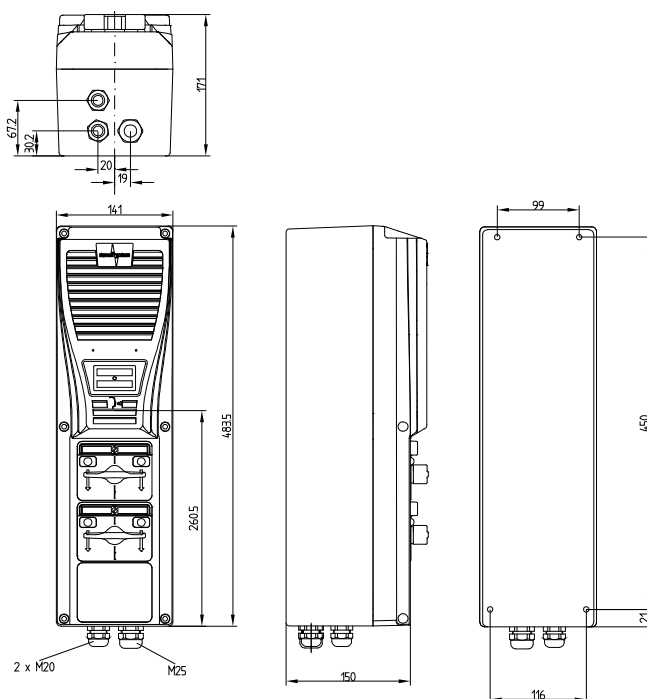


Fig. 1: Dimensional drawing 4 NRO 001

Electrical Data Intercom Station

• Power supply	PoE according to IEEE 802.3af, 15 W or external power supply 48 VDC (42 VDC to 57 VDC, 0.3 A at 48 V)
• Typical power consumption	3 W
• Amplifier output	0.75 W
• Loudspeaker	15 W / 8 Ohms
• Frequency range	200 Hz to 16,000 Hz (+/-3 dB)
• Control line output	Max. 350 mA, using external power supply input (42 VDC to 57 VDC)

Electrical Data Booster Amplifier

• Power supply	Via external power supply input 48 VDC (42 VDC to 57 VDC, 1 A at 48 V)
• Typical power consumption	60 mA
• Output power	25 W / 400 Ohms

Interfaces

- 1 x RJ45 port 10/100 MBit/s (LAN + PoE)
- Screw terminals for external power supply, additional speaker or control line output with 2.5 mm² nominal cross section (AWG 13)
- 1 x Mini USB service port

Network Requirements

- Power over Ethernet (PoE) recommended
- IPv4 network
- Support of UDP, SCTP, RTP and RTCP protocols
- Quality of Service (QoS)
 - Ideal latency value: < 20 ms (max. 50 ms)
 - Jitter: max. 10 ms
- 10Base-T/100Base-TX Ethernet (IEEE 802.3), 100 MBit/s recommended
- 200 kBit/s basic bandwidth and 200 kBit/s per active audio channel

Environmental Requirements and Standards

- | | |
|--|--|
| • Ambient temperature during operation | -20 °C to +55 °C
(-4 °F to +131 °F) |
| • Relative humidity (non-condensing) | Max. 95 % |
| • Degree of protection | IP66 |
| • EMC | IEC/EN 61000-6-2
IEC/EN 61000-6-4 |

Type Overview

No. Rocker Switches	Booster Amplifier	Type	Type Number
1	-	2 NRO 001	302-070-200
	x	2 NRO 001/25	302-070-200/25
2	-	4 NRO 001	302-070-400
	x	4 NRO 001/25	302-070-400/25
3	-	6 NRO 001	302-070-600
	x	6 NRO 001/25	302-070-600/25

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