

1008123120

## TFIX-2-V2

Ex IP Intercom Station with 6 buttons



- ✓ Ex IP intercom for potentially explosive atmospheres - Directive 2014/34/EU
- ✓ Ethernet compatible 2-wire interface
- ✓ ONVIF Compatible
- ✓ DIP functionality for use with AlphaCom audio servers
- ✓ SIP/VoIP functionality for use with 3rd-party systems
- ✓ Dust- and water-protected to IP66
- ✓ Monitoring and self-diagnostics of critical functionality
- ✓ Visible status indicators on front panel
- ✓ Integrated 25W amplifier for external loudspeaker
- ✓ Signal relay for external beacon



SIP

 IC-EDGE IC-Edge

ICX-AlphaCom



IP66



IEC



IEC Ex Intercom



Atex



Active Noise Cancelling



IP over 2-wire

## Description

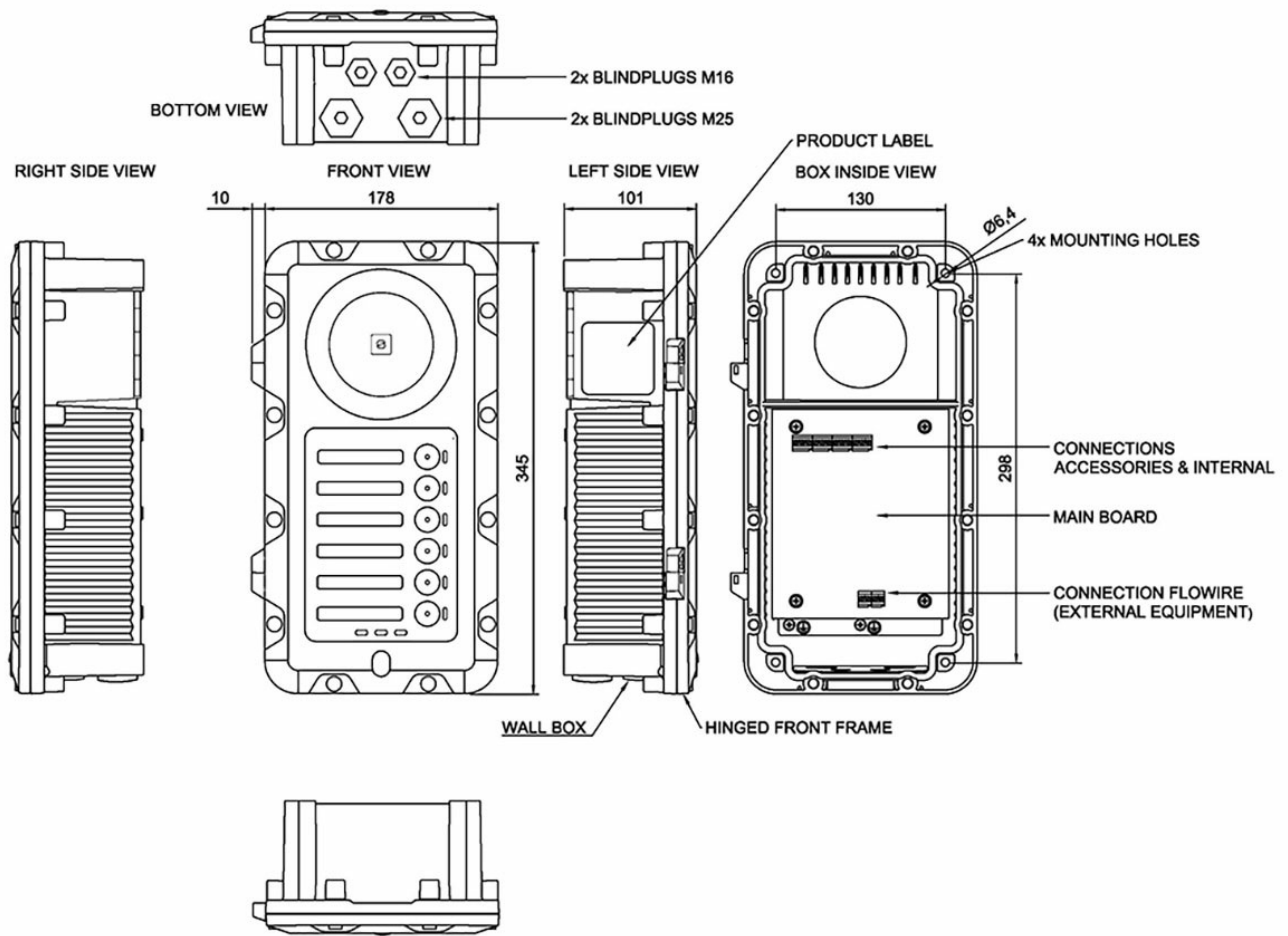
The TFIX-2-V2 Explosion-proof intercom station is a rugged device, designed for harsh environments and meets industrial and offshore requirements as well as requirements for ATEX Zone 1 operation. The plastic housing is designed to withstand most chemical and environmental hazards found on- or offshore.

The TFIX-2-V2 features 6 programmable buttons.

The intercom station is fully digital and offers crystal clear audio with high output through an internal amplifier and 78 mm speaker, delivering over 90 dB SPL. Active Noise Reduction and Acoustic Echo Cancelling allows for hands-free two-way communication with superior audio quality. A built in 25W amplifier is also included to power an external Loudspeaker.

Intercom status indicators display the status of the system and are compatible with AlphaCom and Exigo systems as well as SIP functionality for use with 3rd party systems.

## Technical Dimensions



# Specifications

## MECHANICAL

|            |                        |
|------------|------------------------|
| Dimensions | 345 x 178 x 101 mm     |
| Weight     | 4 kg                   |
| Mounting   | On-wall box (included) |
| Color      | Black                  |

## ENVIRONMENTAL

|                       |   |
|-----------------------|---|
| Operating temperature | -20°C to +55°C  |
| Storage temperature   | -40°C to +70°C  |
| Operating humidity    | 10% to 95% RH (non-condensing)  |
| Storage humidity      | 10% to 95% RH (non-condensing)  |
| Air pressure          | 600 hPa to 1200 hPa   |
| IP-rating             | IP64 in accordance with IEC 60079-0<br>IP66 in accordance with EN 60945 |
| IK rating             | 4J  |

## ELECTRICAL

|                   |   |
|-------------------|---|
| PoE               | NO, proprietary 2-wire data- and powerbus   |
| Power consumption | 4.2 W (idle) to 8 W (max),<br>38.5W (max) with external<br>loudspeaker  |
| DC power          | 24-48 VDC (SELV)<br><br>48 DVC PSU required when<br>using external amplifier (One<br>FCDC3 per station is also<br>recommended when using<br>external amplifier) |

## NETWORK

|                 |  |
|-----------------|--|
| Connection      | 2 x 2-wire   |
| Connection type | Screw terminals  |
| Functions       | Auto negotiating   |
| Built-in switch | N/A  |
| Compatibility   | SIP, ICX-AlphaCom, IC-EDGE, G.711, G.722, G.729, HD Voice, ONVIF |

## INPUTS AND OUTPUTS

|                                 |   |
|---------------------------------|---|
| Handheld Microphone             | Microphone (bal), PTT   |
| Handset                         | Microphone (bal), Speaker (bal) + PTT   |
| Headset                         | Microphone (bal), Speaker (bal), + PTT  |
| Digital inputs/outputs          | 2 (Ex i type)   |
| Relay outputs                   | 1 (60VDC, 320mA, 10 <sup>8</sup> operations)  |
| Audio                           | Yes, for audio accessories  |
| Aux power                       | Provided by network cable   |
| External speaker amplifier      | 25W class D   |
| External speaker specifications | Impedance=8Ohm, minimum rated power: 25W<br>Impedance=20Ohm, minimum rated power: 10W |

## CERTIFICATIONS

|                          |  |
|--------------------------|--|
| Immunity                 | EN 60945, EN 61000-6-2   |
| Emission                 | EN 60945, EN 61000-6-3, EN 61000-6-4   |
| GENELEC safety standards | EN 60079-0:2018, EN 60079-7:2015/A1:2018, EN 60079-11:2012, EN 60079-18:2015/A1:2017 |
| IEC safety standards     | IEC 60079-0:2017, IEC 60079-7:2017, IEC 60079-11:2011, IEC 60079-18:2017             |
| Marking                  | II 2(2) G Ex e ib mb [ib] IIC T4<br>Gb -20°C ≤ Ta ≤ +55°C                            |

## OTHER SPECIFICATIONS

|          |   |
|----------|---|
| Warranty | 2 Years standard warranty, extendible up to total of 5 years (additional fee) |
|----------|---|

## Accessories



### TAX-2B

Ex-Approved Plugbox & Cable for Headset with PTT



DISCONTINUED

### TAX-3

EX Handset



### EMMAX-1H

Handheld Industrial EX Microphone For Exigo/Turbine



### FCDC3

Flowire Ethernet Converter - DC Voltage



### Power Supply 100-240VAC/48VDC 2A

Switched-mode power supply, 1-phase, 48 VDC output voltage, 2A current



### DSP-15 EExmN, 25W

Ex horn speaker for TFIX-V2 stations, 8 Ohm



### TNFCD2G212

Ex proof beacon, Ex de 24-48VDC GREEN, 1 x M25 gland