

1008123110

## TFIX-1-V2

Ex IP Intercom Station- full keypad



- ✓ Ex IP intercom for potentially explosive atmospheres - Directive 2014/34/EU
- ✓ Ethernet compatible 2-wire interface
- ✓ 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
- ✓ ONVIF Compatible
- ✓ Visible status indicators on front panel
- ✓ Integrated 25W amplifier for external loudspeaker
- ✓ Signal relay for external beacon



SIP

 IC-EDGE

IC-Edge

 ICX

ICX-AlphaCom



IP66

 IEC Ex Intercom

IEC Ex Intercom



Atex



Active Noise Cancelling



IP over 2-wire

## Description

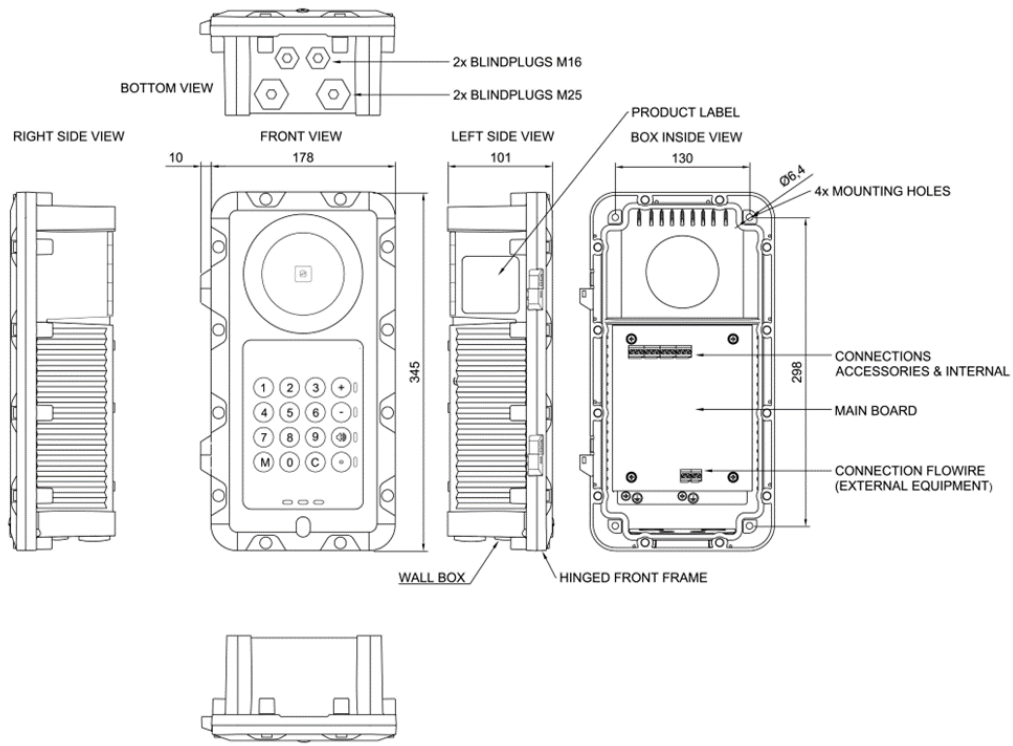
The TFIX-1-V2 Explosion-proof intercom station is a rugged device, designed for harsh environments and meets industrial and offshore requirements as well as requirements for ATEX Zone 1 operation. The plastic housing is designed to withstand most chemical and environmental hazards found on- or offshore.

The TFIX-1-V2 features a full keypad with 1 programmable button and keys for manual override (PTT) and Cancel.

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

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	IP66 in accordance with IEC 60945
IK rating	4J

## ELECTRICAL

PoE	NO, proprietary 2-wire data-and power bus
Power consumption	4.2 W (idle) to 8 W (max), 38.5W (max) with external loudspeaker
DC power	24-48 VDC (SELV)  48 DVC PSU required when using external amplifier (One FCDC3 per station is also recommended when using 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 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
CENELEC 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 Gb -20°C ≤ Ta ≤ +55°C

## OTHER SPECIFICATIONS

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



### TAX-2B

Ex-Approved Plugbox & Cable for Headset with PTT



### TAX-3

EX Handset



### EMMAX-1H

Handheld Industrial EX Microphone For Exigo/Turbine



### FCDC3

Flowire Ethernet Converter - DC Voltage



### EGA-1

Button Protection Covers



### 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