



#### 1008122060

# TFIE-6

#### IP and SIP Intercom

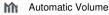
- CCoIP/VoIP intercom for industrial environments
- Dual Ethernet connectivity for redundant networks
- ONVIF Compatible
- PoE powered
- Auxiliary DC power for redundancy
- DIP functionality for use with AlphaCom audio servers
- SIP/VoIP functionality for use with 3rd-party systems
- Dual relay outputs
- 6 configurable I/Os
- Dust- and water-protected to IP 66
- Accessories include Handheld PTT, Headset with ON/OFF and PTT and Handset with
- Monitoring and self-diagnostics of critical functionality
- Visible status indicators on front panel
- PMOLED display with scrolling unit for calling to unlimited number of places



Industrial Intercom











Automatic Gain Control Active Noise Cancelling





Open Duplex



Voice Activity Detection

# Description

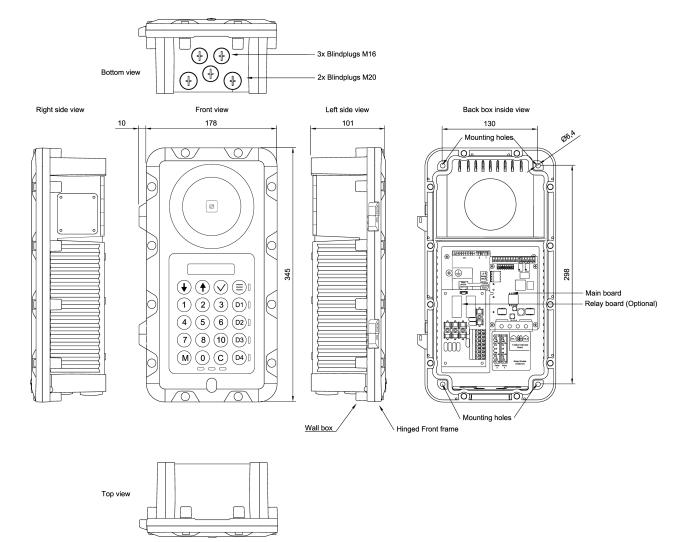
The TFIE-6 IP industrial intercom station is a rugged device, designed for harsh environments and meets industrial and offshore requirements. The plastic housing is designed to withstand most chemical and environmental hazards found onshore or offshore. The TFIE-6 features a full keypad with four programmable buttons, keys for manual override (PTT) and Cancel, plus display with scrolling unit. The intercom station is fully digital and offers crystal clear audio with high output through a 10 W internal amplifier and 78 mm speaker, offering up to 100dB SPL.

Active Noise Reduction and Acoustic Echo Cancelling allows for hands-free two-way communication with superior audio quality. 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.

See also: additional documentation on wiki.zenitel.com

## **Technical Dimensions**

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# Specifications

#### **AUDIO**

G.722, G.729
G.722, G.729
G.722, G.729
G.722, G.729
– 7000 Hz
Full open duplex, d open duplex
e jitter filter
one generator
nixing - 3 channels
evel detection (scream
tic gain control hone)
tic volume adjustment
ass D
rted and clear audio
ts audio feedback even at lumes (95dB)
s 10W amp for distortion- adcast level sound

### MECHANICAL

Dimensions	345 x 178 x 101 mm
Weight	1.9 kg
Mounting	On-wall box (included)
Color	Yellow + Black

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ORDER NUMBER	ORDER NUMBER DESCRIPTION	
1008122010	TFIE-1 Full keypad with 1 programmable key	
1008122020	TFIE-2 6 labelled programmable keys	
1008122060	TFIE-6 Full keypad with display and scrolling unit	
ACCESSORIES		
1023594100	EGA-1 Button protection (10x) for TFIE/TFIX/EAPII/EAPFX	
1023533312	EMMAI-2H Handheld Industrial Microphone, Compact, Waterproof for EAPII/TFIE	
1008140100	TA-10 Connection board with relays for TFIE/EAPII	
1008140225	TA-22b 10m cable and plugbox w/PTT for Industrial headset (for TFIE)	
1008140230	TA-23 Industrial/Marine Handset w/PTT (for TFIE)	
1008140250	TA-25 Set of replacement screws (M6) for TFIE/TFIX/EAPII/EAPFX	
1008140260	TA-26 Set of cable glands for TFIE/EAPII	
AK5850HS	A-Kabel TwinCom Headband Headset ATEX	
ENVIRONMENTAL		
Operating temperature	-40°C to +70°C (-40°F to +158°F)	
Storage temperature	-40°C to +70°C (-40°F to +158°F)	
Operating humidity	10% to 95% RH (non-condensing)	
	10% to 95% RH (non-	

Operating temperature	-40°C to +70°C (-40°F to +158°F)
Storage temperature	-40°C to +70°C (-40°F to +158°F)
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	IP-66 tested acording to IEC/EN 60529

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#### **ELECTRICAL**

Ethernet connector	2 x RJ45
Power options	PoE or external power supply
PoE (Power over Ethernet)	IEEE 802.3af standard, Class 0 (0.44W to 12.95 W)
Auxiliary DC power	24 VDC nom (16 to 48 VDC)
Power consumption	2 W (idle) to 12,9 W (max)
Built-in switch	Managed, DHCP, Firewall
Compatibility	SIP, ICX-AlphaCom, IC-EDGE, G.711, G.722, G.729, HD Voice
Handheld Microphone	Microphone (bal), PTT
Handset	Microphone (bal), Speaker (bal), + PTT
Headset	Microphone (bal), Speaker (bal) + PTT
Digital inputs/outputs	6 (configurable input/output/LED-driving)
Relay outputs	2 (250VAC/200VDC, 2A, 60W, 10^8 operations)
Audio	Line-in, Line-out
Aux power	1 (tool-free terminals)
Display technology	PMOLED
Display contrast	20000:1
Viewing angle	160 deg
Display brightness	120 cd/m2
Display lifetime	100 000 hours (11.5 years)

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#### **NETWORKING AND PROTOCOLS**

Ethernet	10BASE-TX, 100BASE-TX , Auto negotiation, Auto MDIX
Protocols	IPv4 (with DiffServ), SIP, TCP, UDP, HTTPS, TFTP, RTP, DHCP, SNMP, ONVIF, CCoIP®, NTP
LAN protocols	Power over Ethernet (IEEE 802.3 a-f) Network Access Control (IEEE 802.1x)
Management and operation	HTTP/HTTPS (Web configuration) DHCP and static IP + IC-EDGE Remote automatic software upgrade Centralized monitoring
Advanced supervision functions	E.g. network test, tone test, status reports
SIP support	RFC 3261 (SIP base standard)
	RFC 3515 (SIP refer)
	RFC 2976 (SIP info)
DTMF support	RFC 2833, 2976 (SIP info)

### CERTIFICATIONS

Immunity	61000-6-1, EN 61000-6-2, FCC- 47 part 15B EN 60945, EN 50130-4, EN	
Emission	61000-6-3, EN 61000-6-4, FCC- 47 part 15B	

#### OTHER SPECIFICATIONS

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

## Accessories

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EMMAI-2H

Handheld Compact Industrial Microphone For Exigo/Turbine



TA-23

Industrial Handset for Turbine with PTT



AK5850HS

Ex-approved Headset



AK5850BS Ex TwinCom Helmet Headset w/ear plug connector

Ex-approved Headset with helmet mounting and connector for ear plug



AK5850BHS Ex TwinCom Headband Headset w/ear plug connector

Ex-approved Headset with headband



TA-22B

Industrial Plugbox & Cable for Headset with PTT



TA-10

Relay Module



EGA-1

**Button Protection Covers**