TAS2000VoIP 1.3

Weatherproof Industrial Digital Telephone Set

DS TAS2000VoIP1.3 - ENRev.1605

TAS2000VoIP Weatherproof Digital IP Telephone set

- ▶ **Digital VoIP telephone (standard SIP) for wall mounting installation.**
- ▶ **Industrial weatherproof IP66 / IK10 copper-free aluminium alloy housing to ensure high protection against corrosive agents even in marine and chemical environments.**
- ▶ **Handset & integrated microphone and loudspeaker for full-duplex hands-free conversation.**
- ▶ **Full telephone key pad and/or custom keys configuration.**
- ▶ **One LED for visualising the status of the telephone.**
- ▶ **Set of additional piggy-backs for special functions (intercom, I/O managing ….).**
- ▶ **Standard SIP support protocol.**
- ▶ **Operating Temperature: -40°C to +70°C.**
- ▶ **RJ45 Ethernet interface with PoE and/or local power supply (22 to 56 VDC).**

TAS2000-VoIP has been designed in order to perform the maximum level of quality, flexibility and reliability in very heavy industrial environments (remote diagnostic support).

TAS2000-VoIP includes both handset and hands-free communication facilities in order to support the intercom function (self-answering).

The user can freely select the communication mode (handset or hands-free) selecting it on the incoming call as well as during the call itself.

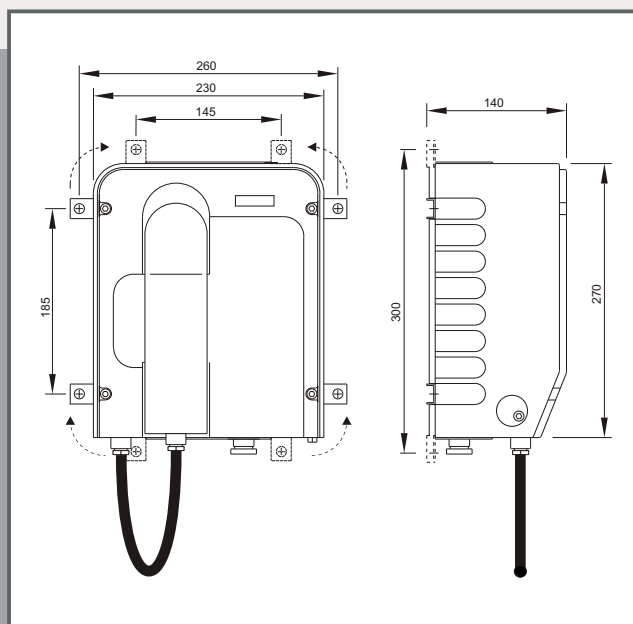Two buttons for adjusting the volume of the integrated loudspeaker.

TAS2000-VoIP is configured with integrated digital memory in order to record local audio messages (e.g. "call in progress" - "operator is busy" - different audio tones...)

Robust heavy-gauge shock-proof resin weatherproof IP66 handset with cord protected by anti-vandal spiralled stain-less steel sheath.

Handset hook magnetic type without moving parts.

Metal vandal-proof push-buttons and telephone keypad.

Depending by the required version, **TAS2000VoIP** can be supplied with full keypad as well as with one or more memory direct call key(s) only.

Thanks to the following additional piggy-back to be assembled inside the housing of the telephone it is possible to offer a wide range of special functions:

Piggy-Back	Configuration	Typical application
7133139	1 audio analog 0 dB output 1 output relay	• Audio output for managing one or more amplified and/or amplified and self-volume-adjustable external loudspeakers (*) • Relay for managing and external telephone repeater and/or local signals
7133911	4 opto-coupled inputs 2 output relays	• Remote contacts activated by external systems for dialling automatically a direct call • Relay for managing and external telephone repeater and/or local signals
7133921	4 opto-coupled inputs 2 output relays 1 audio analog 0 dB output	• Remote contacts activated by external systems for dialling automatically a direct call • Relay for managing and external telephone repeater and/or local signals • Audio output to be connected to the analog IN of the external CCTV camera (audio and video data recorded by the CCTV server)

(*) see FITRE XP11L/24-48 and XPR11/24-48 product data-sheets

[The use of piggy-backs may require additional power supply; in addition it is necessary to check maximum quantity and types of the piggy-backs on the same telephone set]

Technical Characteristics	
Housing	Copper-free aluminium alloy
Color	Front: orange RAL2000 - Back: Black
Protection	IP 66 (IEC 60529) / IK10
Fixing	Wall mounting
Input cables	n. 1 weatherproof M16 cable gland - n.1 weatherproof M20 and n. 1 M25 blind plugs
Key dimension	Ø 12 mm
LED for visualising the line status	2
Hands-free conversation	YES
Full-Duplex conversation	YES
Handset	YES - Heavy-gauge shock-proof resin weatherproof IP66 handset with cord protected by anti-vandal spiralled stain-less steel sheath.
Trebles and volumes	Programmable through Web-Server pages
Local out volume adjustment	YES - integrated loudspeaker volume adjustment through two dedicated keys
Ringing sound power	94 dB @ 1m
Hands-free microphone	Weatherproof electret
Loudspeaker output volume	Adjustable through Web-Server page: max 250 mW
Function piggy-back	YES through additional optional device to be assembled inside the telephone itself
Reference Norms	EN-55022 (2006) + A1 (2007) EN-55024 (1998) + A1 (2001) + A2 (2003)
Operating Temperature	from - 40°C up to + 70°C
Storage Temperature	from - 40°C up to + 80°C
Relative humidity	95% non condensing
Dimensions	H 300 x L 260 x P 140 mm (packed: 400 x 235 x 160 mm)
Weight	kg 5,4 (packed: kg 5,8)
Consumption (max.) excluding the additional piggy-backs	≤ 4 W

VoIP characteristics with SIP protocol	
LAN/WAN connection	10/100 BaseT Ethernet RJ45 with UTP cable . IP static address or DHCP
PoE (1)	YES . through RJ45, according to the 802.af norms
External power supply (1)	from 22 up to 56 VDC
Communication protocol	Standard SIP
Audio codecs	G.711 A-low . G.711 Q-low . GSM . G.722 . G.729 (on request)
Remote configuration with protection through password	• Web server • Download / Upload of the configuration file • NTP with local time and day • Firmware updating through TFTP, HTTP • VLAN
Remote real-time diagnostic functions	• Through SNMP or • Through ASTRO System Server configured with ASTRO/Manager (including VNC) or • Through Web Server

(1) NOTE: The digital FITRE stations are designed for accepting simultaneously the power supply coming from PoE and from the local power supply in order to guarantee the operation even in case of fault on one of the two power sources