

VoIP-Industrial Call Station

VIPCOS ITW-IC 615 Ex



SERVERLESS

IP INTERCOM

Explosionproof

Serverless call station for industrial applications. VIPCOS ITW-IC 615 Ex combines intercom and telephone applications based on state-of-the-art network technology for Explosionproof Areas.

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Explosionproof

Weatherproof up to IP66

Public Address



Weatherproof call station made of glass-fibre reinforced polyester

VIPCOS ITW-IC 615 Ex the serverless IP Industrial Intercom Station is a versatilely usable device designed specifically for industrial intercom. VIP-COS ITW-IC 615 Ex guarantees a full, state-of-the-art network based communication during production processes not only for safety and security reasons. In addition to that it offers an excellent voice quality, fail-safe (guaranteed by permanent self-test and monitoring), sophisticated design and easy to use operation taking into account accessibility for heavy industrial use as well as additional interfaces for the connection of peripheral systems or operational equipment. VIPCOS ITW-IC 615 Ex can be leveraged to the needs of your location and related requirements any time flexibly and individually.

Borderless communication

Apart from an easy handling of the VIPCOS ITW-IC 615 Ex in normal use, the call station also excels at simple operation in difficult and stress situations. The simple standard specifications, as the ones in a telephone and intercom system, meet these requirements in one system unit. A basic prerequisite for a fail-safe communication process independent of the respective situation is excellent hands-free behaviour. The VIPCOS ITW-IC 615 Ex makes it all possible by processing voice data exclusively digitally supported by a high level DSP (Digital Signal Processor).

TECHNICAL SPECIFICATIONS

Inputs:	2 x Double Level Switches 1 x Dial pad 1 x Microphone
Outputs:	1 x Loudspeaker 1 x 40 W built in amplifier, 10W at PoE 1 x Relais contact, 10 A at 230 V
Network:	1 x Ethernet 100 Base-T Auto MDX / MDIX (switched)
Software:	RTOS (Real Time Operating System) on ARM7-CPU
Storage:	4 MBit ROM, 1 MBit RAM integrated alarm tones (optional)
Computer power:	55 MIPS
Protocol:	
IP:	Internet Protocol Version 4
TCP/UDP:	Transport protocol
ARP:	Address Resolution Protocol
RTP/RTCP:	Realtime Transport Protocol
DHCP:	Dynamic Host Control Protocol (Client)
ICMP:	Internet Control Message Protocol
VoIP Protocol:	SIP (STUN) standard and severless
Audio codec:	G.711alaw
SNMP:	optional
TFTP:	Trivial File Transfer Protocol (Server)
HTTP:	HyperText Transfer Protocol (WebServer)

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Reliability

Unrestricted operability is the highest priority for the use of the VIP-COS ITW-IC 615 Ex. This is guaranteed by permanent monitoring and consistent decentralized logical units. For this purpose, apart from communication among all call stations used and the functioning of the individual boards, also the operability of loudspeakers and microphones are continuously monitored using an acoustic pilot tone. VIPCOS ITW-IC 615 Ex is based on the worldwide accepted high level management procedure SNMP, ensuring a reliable system control.

High Flexibility

The requirements of an industrial intercom system may vary a lot depending on the particular environment. VIPCOS ITW-IC 615 Ex offers a highly flexible concept to incorporate these conditions. Low power consumption facilitates the use of power over Ethernet, so that a local power supply is not necessary. VIPCOS ITW-IC 615 Ex is freely configurable depending on the individual requirements, e. g. simply pressing the predefined twin switch lever for intercom use, simply dialing the required destination by pressing the related digits on the numeric keypad, display of the call by activating external signal sources, voice mail for alarm signals and predefined announcements.

TECHNICAL SPECIFICATIONS

Frequency:	G.711 alaw, 300 – 3400 Hz (optional μ law)
Optional:	G.722 (20 – 7800Hz), at same data bandwidth
Power:	PoE (Power over Ethernet) acc. IEEE-Standard 802.3af
Power consumption:	4 / 15 / 45 W
Power:	48 - 56 V/DC or 24 V/DC
Temperature:	from -55 to +65 °C
Software:	Fast Boot Function
Call:	own No. or Group
Groups:	member of 250 different groups
Group priorities:	250
Configuration:	up and download via web interface
Self test:	automatic
Safety:	Watchdog-Function in the RTOS
Dimensions:	500 x 120 x 180 mm (H x W x D)
Material:	reinforced polyester
Housing color:	orange (RAL 2004)
Weight:	approx. 4,0 kg
Classification:	according to DIN EN 60529 / IP65

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Access all areas

By using standard interfaces and protocols communication and even configuration are very simple. The device configuration of VIPCOS ITW-IC 615 Ex is achieved by using a standard Web browser such as Internet Explorer or Mozilla Firefox. VIPCOS ITW-IC 615 Ex allows the use of new software features by distribution over IP. This ensures easy and safe handling.

Wide Extensibility

VIPCOS ITW-IC 615 Ex covers a lot of standard applications. By additional interfaces, such as USB, the system can be expanded as required. This facilitates the design of individual communication applications tailor-made for your needs and requests, including public address via IP. Communication on the outside line VIPCOS ITW-IC 615 Ex Voice-Link, with a range of 750 meters. By a duplication of transmission technology, range enhancements in lines (e.g. alongside roads) or redundant rings are possible.

Weatherproof and temperature-resistant

VIPCOS ITW-IC 615 Ex again shows the longstanding cooperation with our customers and the everyday experience that helps to develop and improve our products continuously. VIPCOS ITW-IC 615 Ex withstands adverse environmental conditions such as dust and splash water. It is condensation and maintenance-proof thanks to a sophisticated design. Due to its extended temperature range the device can be used almost everywhere. VIPCOS ITW-IC 615 Ex signalling is the latest technology in accordance with the SIP standard.

TECHNICAL SPECIFICATIONS

GOST:	15150-69
Impact protection:	according to GOST 12.2.007.0-75: II
Housing protection class :	according to GOST 14254-96: IP66

Approvals

For specific country approval, please call.

Purpose and application area

The digital weatherproof explosionproof call station type ITW-IC 615 Ex with the marking of explosion 1Ex e mb II T6 Gb (further in the text - device) is intended for establishing direct simplex, duplex and half-duplex connection with other intercom devices and for transmitting messages over loudspeakers in various industries. The devices are belonging to the Group II for electrical equipment, intended for use in explosive areas classes 1 and 2 (classes in accordance with GOST IEC60079-10-1-2011) of categories IIA, IIB and IIC (subgroups in accordance with GOST R MEK 60079-20-1-2011) and temperature classes T1, T2, T3, T4, T5 and T6 (in accordance with GOST IEC 60079-10-1-2011) in accordance with the assigned marking of explosion protection and requirements GOST IEC 60079-14-2013.

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Construction description and equipment for explosion protection

The device is a plastic housing, covered with a durable antistatic coating with bright orange color (RAL 2004) inside which there is a loudspeaker, a microphone and an electronic board filled with a compound. The loudspeaker and microphone are protected from mechanical damages and direct contact with small particles and water by the shaped gratings of the housing cover. At the bottom of the device are installed one to three buttons type "swing" and LEDs as indicators of operation modes or a keyboard to dial the subscriber's number. The cables for connecting of devices are entered through the sealing cable entries located on the bottom of the housing. Explosion protection is provided in accordance with the requirements for explosion protection: GOST R MEK 60079-0-2011 (Explosive environment. Part 0. Equipment. General requirements), GOST R MEK 60079-7-2012 (Explosive environment. Part 7. Equipment. Type "e" increased protection), GOST R MEK 60079-7-2012 (Explosive environment. Part 18. Equipment with protection type "hermetic sealing by the compound" m").