

DWEx[m] Explosion proof call station

RMLT.465311.003



DWEx explosion proof call station is the subscriber equipment to use at industrial sites and transportation infrastructure within the digital Intercom and PA/GA communication system Armtel DCN.

DWEx is designed for use in potentially explosive gas environment, except for mines and their ground structures that are mine gas hazardous, according to explosion proof marking:

- **1Ex e ib mb IIC T4 Gb X**
- **II 2 G Ex eb ib mb IIC T4 Gb**

With marking for explosive dust environments:

- **Ex tb IIIC T135 °C Db**
- **II 2 D Ex tb IIIC T135 °C IP66 Db**

Explosion proof is achieved due to the insulation of its electrical circuits from interaction with potentially dangerous gas environment, by organosilicon thermally conductive compound, as well as providing the electrical connections of speaker, microphone and controls through of "ib" spark-safe circuits.



Explosion proof



Protection against temporary immersion in water



Up to 6,8 kHz bandwidth

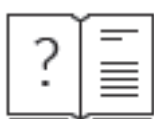
Key features:

- Two-way loud-speaking simplex communication with the help of integrated speaker and microphone;
- Loud-speaking voice communication in "half-duplex" mode with duplex devices like telephone sets;
- Group calls and Public Address, including zonal one;
- Extended voice signal bandwidth up to 6,8 kHz;
- Broadcasting of alarm signals and other pre-recorded messages from central exchange for single subscribers and group of subscribers;
- Indication of calls, busy subscriber, unanswered call and other modes on LED indicators of programmable keys;
- Translation of incoming sound messages via integrated loudspeaker and optional 25 W amplifier;
- Control of external signaling device via built-in relay;
- Reliable communication via digital two-wire Uk₀-interface line to a distance of up to 6 km;

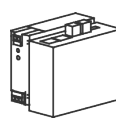
Technical specifications

Supply voltage range, V	from -36 V to -60 V
Maximum operating current:	
- With main amplifier	95 mA
- With auxiliary amplifier 25 W	1,1 A
Power consumption:	
- With main amplifier	3,5 W
- With auxiliary amplifier 25 W	40 W
Bandwidth	from 300 Hz to 6800 Hz
Communication interface	Uk ₀
Number of programmable direct connections / functions	up to 24
Communication protocol	Armtel
Auxiliary amplifier	25 W
Max. sound pressure level of built-in speaker (at 1 m.)	104 dB
Ambient temperature range	from -55°C to +70°C
Air humidity	Up to 100 % at +25°C
Protection class as per GOST 14254-2015	IP66
Electrical safety class according to GOST 12.2.007.0-75, IEC 61140-2012	II
Dimensions without handset	515×130×205 mm
Dimensions with handset	540×130×225 mm
Maximum weight	8,0 kg
Material	GRP
Color	Orange
Cable glands	2 nos M25×1,5 1 nos M20×1,5

Delivery includes



Set of operational documents



Mounting kit (bracket x2, bolt M6×16 DIN 933 x4, washer 6 DIN 127A x4, washer 6 DIN 9021 x4)

Additional equipment

Identification	Description
Two-way toggle module (from 1 to 3)	The module is designed for 2 connections or programmable functions with built-in LED indications of dedicated subscriber status and communication line
Direct call pushbutton module for 8 connections	
Dial pad module with 12 pushbuttons	10 for dialing and 2 for communication control
Handset with special bracket	
Foot paddle	