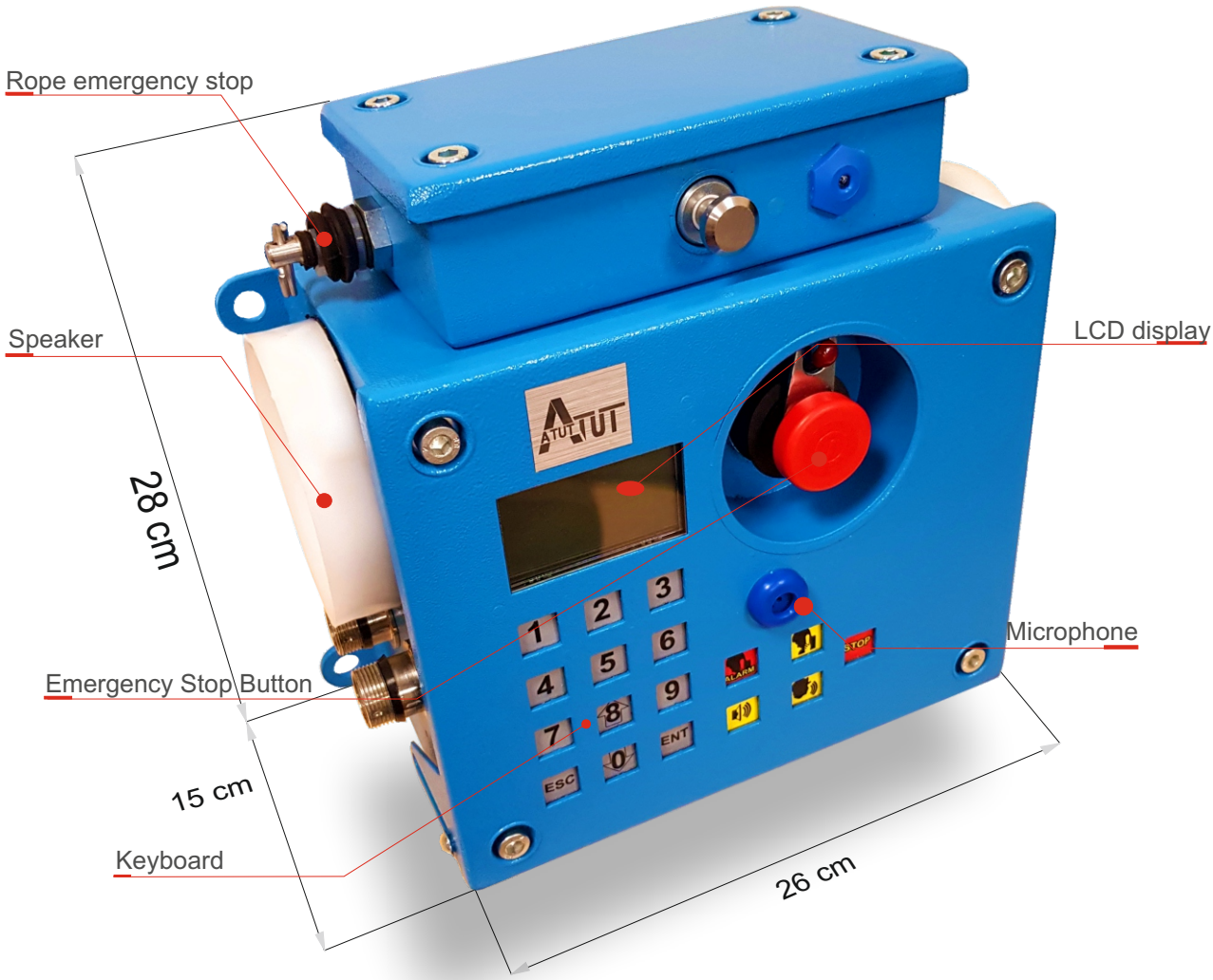
Digital Control Device

CUKS-7/...



Device description:

Digital Control Device Type CUKS-7 is a loudspeaker designed to control industrial processes under the atmosphere of steam, gases and dusts posing a risk of explosion. It is designed both to work independently as well as in a digital network system, then being a part of a larger system. Implementation of the device enables connectivity of loud speaking, signaling and measurement of selected voltages associated with diagnostic system. The integrated battery allows continuous operation in spite of temporary power outages. Its equipment provides the ability to control and drive devices connected into independent inputs or/and outputs. CUKS-7 also provides the tension control of the emergency stop cord. Device is made as intrinsically safe, allowing their use in mining in areas with danger of explosion of methane and / or coal dust.

CUKS-7 with its digital audio line supports unicast, broadcast and multicast communication. Its microphone enables background noice cancellation.

Depending on the system implementation, when connected to mine wide communication central, CUKS-7 provides ability to establish a call between any of the loudspeaking devices and any telephone used in mine wide communication network – including surface and underground devices.

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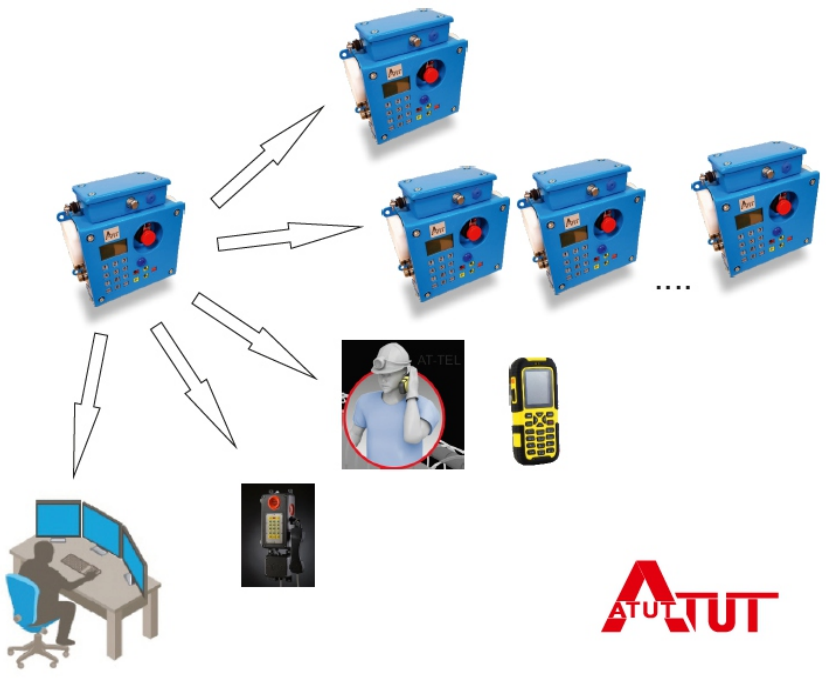
Technical characteristics:

ATEX certificate number	FTZÚ 14 ATEX 0106
Supply parameters:	
Supply voltage U_N	12,5 ÷ 15 VDC
Maximum supply voltage U_i	15,8 VDC
Supply parameters	I_i=2,5A C_i=0, L_i=0;
Supply Current I_N	I_N < 120 mA (CUKS-7/..W/XY) or I_N < 80 mA (CUKS-7/..1..)
Binary input circuits (I_N1 ÷ I_N2)	$U_{I\,MAX}$= 14,28V
voltage inputs	0 ... 10 V
current inputs	4 ... 20 mA
frequency inputs	5 ... 15 Hz
temperature inputs	-30 .. 300°C (Pt1000)
Output circuit (OUT)	U_H = U_N (12 ÷ 15 VDC) U_L= 0 ÷ 0,1 VDC U_0 = 15,8 VDC
Device Group	I
Device category	M2/M1
Casing type	Ex ib/ia I
Working temperature range	0°C ÷ 40°C
Casing protection degree	IP54 or higher
Width x Height x Depth	459 x 473 x 123 mm
Weight	6 kg



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