

# INTRINSICALLY SAFE POWER SUPPLY ZIB-1



Catalogue card



## DESCRIPTION

Intrinsically safe power supply ZIB-1 is a stationary device used to supply intrinsically safe circuits. ZIB-1 is designed in different variations with different input and output parameters. Power ZIB-1 is supplied from non-intrinsically safe voltage 24VAC, 42VAC, 110VAC, 230VAC or 250VDC and has no battery backup.

Each version of the power supply has two communication interfaces: RS-485 and RS-232 interface. To signal the current state of work of the power supply are 3 LEDs on the power supply housing and a set of two-stage inputs.

Intrinsically safe power supply ZIB-1 is a device of M1 category and may thus be used in all underground mines with possible methane or coal dust explosion hazard. It also has 2G category so it can be used by the industry.

Full name is Intrinsically safe power supply ZIB-1/x/x/x. Depending on the version, the user should use relevant designation of the device, according to the following scheme:

<b>ZIB -</b>	<b>1</b>	/	<b>x</b>	/	<b>x</b>	/	<b>x</b>	
								05: Nominal output current 0,5A
								10: Nominal output current 1A
								15: Nominal output current 1,5A
								12: Nominal output voltage 12VDC
								15: Nominal output voltage 15VDC
								24: Supply voltage 24VAC
								42: Supply voltage 42VAC
								110: Supply voltage 110VAC
								230: Supply voltage 230VAC
								250: Supply voltage 250VDC

The power supply is also in ZIB-xA/x/12/10/x version and it can be used in systems „MULTICOM” and „FLEXCOM”.

## TECHNICAL SPECIFICATIONS

### Intrinsically safe power supply ZIB-1

Supply voltage (nominal):	24VAC, 42VAC, 110VAC, 230VAC or 250VDC
Nominal output voltage	12V or 15V
Rated output current	0,5A or 1A or 1,5A
Protection index cover	IP54
Working temperatures	from -5°C to + 40°C
Working humidity range	from 15% to 95% without condensation
External dimensions	295 x 250 x 125 mm
Weight	10 kg

## EXPLOSION-PROOF MARK

Ⓔ I M2 Ex eb mb [ia] I, Ⓔ II 2G Ex eb mb [ia] IIB T4

EC type examination certificate: TEST 13 ATEX 0009X