



DIK-01 Mine Identification Card

 **Certificate: ATEX**



Technické parametry DIK-01:

Model	I M1 Ex ia I
Coil voltage	-3 to 14 VAC
Coil current	-10 to 10mA
Frequency	100 to 150 kHz
Ambient temperature	-40 to +85°C
Dimensions	85.6 x 53.9mm

Use:

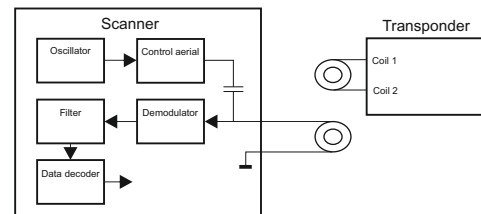
The DIK01 mine identification card provides identification of underground workers at withdrawal of mining lamps, snacks or other things according to user's requirement. The identification is carried out only in the surface workplaces of coal mines in the common environment by means of the A70.ZAM card scanners. With regard to its design and metal coating, this card can be used for the entrance of a worker into the environment with a high hazard of methane explosion but it is not to be used underground and it should only be carried there.

Description

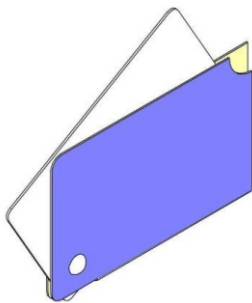
The DIK01 mine identification card consists of the actual plastic card, the so-called transponder, and a metal casing covering the whole surface of the card. The card works with the scanner on the frequency of 125 kHz. It contains a coupling coil and a microchip reflecting in capacity. The scanner contains a transmitting part – an oscillator, a control aerial, and a receiving part consisting of a coupling coil, demodulator, filter, data decoder and memory for work with read data.

The transponder is fed by the induced magnetic pole in the coil. Rectified voltage feeds the chip, which receives and transmits data during activation.

The transponder is inserted in the stainless steel casing for the purpose of its transport underground and in order to avoid its damage. When identified on the surface, workers have to pull the card out by turning it around the pin. When the card is put near the scanner, the data is being read. The card may be printed according to customers's requirements.



Flowchart of the principle of data scanning from the identification card by the A70.ZAM scanner.



The look of the transponder with the casing.

The catalogue has only those selected important parameters for your final decision. For project designs always ask for the user's guide for this product and any engineering consultation about possible uses.