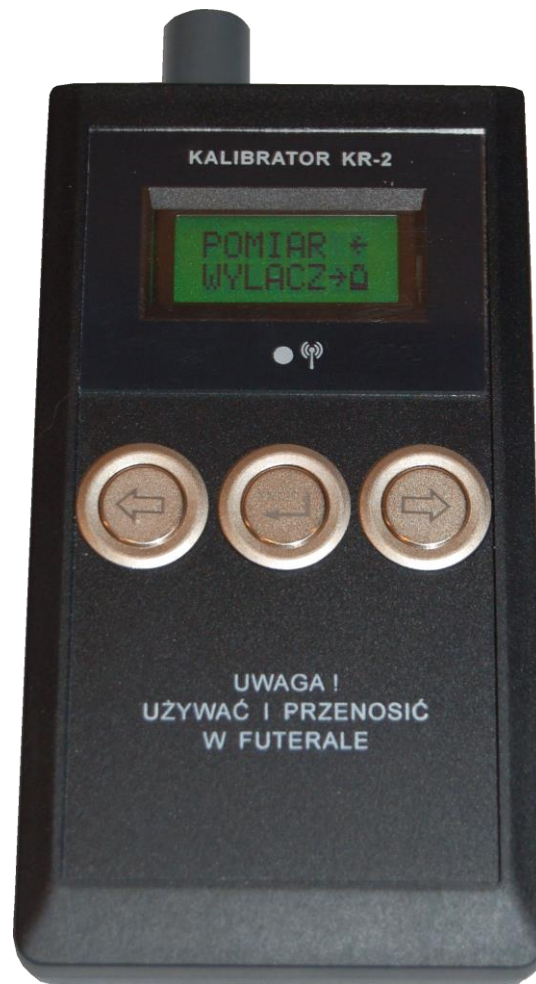# CALIBRATOR KR-2

Catalogue card

DESCRIPTION

Calibrator KR-2 is a portable microprocessor device designed for carrying out tests and measurements of devices operating in explosion hazard areas in underground coal mines. It is mainly used to cooperate with gas detection devices, e.g., CSM-1, CSHT-1, CSCO-1, CSCO-2, CSO-2, CSPA-2, CSM-3, CSM-3i and CSCD-3i. The calibrator communicates with such devices via radio waves or by cable.

Upon operator's order, it automatically searches for a device with compatible radio system and establishes connection with it. Using the keyboard and having chosen the relevant function on the LED display, one may read the data from a selected device. The data include, among other things, type serial number of the device, its working mode and metrological values. The data sent from the calibrator to the device may, for example, inform about the concentration of the standard gas. During the operation of the calibrator one can control the condition of the batteries, the LCD display, the keyboard and check if the radio transmission is correct.

The following functions are accessible from the calibrator's menu:

POMIAR	-	monitoring of current measurement values from the sensor
WYŁĄCZ	-	switching off the calibrator
SKAL NS	-	calibration of Low Concentration chamber
SKAL WS	-	calibration of High Concentration chamber
KONTROL	-	sensor control without switching off the contacts UW1 and UW2
STATUS	-	additional information from the sensor (e.g., batteries, alarm thresholds, temperature)
INFO 1	-	additional information about KR-2 (serial number, manufacture year, KR-2 version)
INFO 2	-	additional information about KR-2 (voltage of KR-2 batteries)
WPIS NS	-	entering the value of concentration of model mix for Low Concentrations
WPIS WS	-	entering the value of concentration of model mix for High Concentrations

BASIC TECHNICAL DATA

Calibrator KR-2	
Power supply	batteries 3,6 V
Power supply autonomy	10 h (continuous operation)
Transmission method	digital, by radio
Working temperature range	from -10 °C to + 40°C
Relative humidity range	from 0% to 95% without condensation
External dimensions	170 x 83 x 33,5 mm
Weight	0,35 kg
Casing internal protection	IP-54

EXPLOSION-PROOF MARK

⟨Ex⟩ I M1 Ex ia I   EC type examination certificate: KDB 07 ATEX 256X