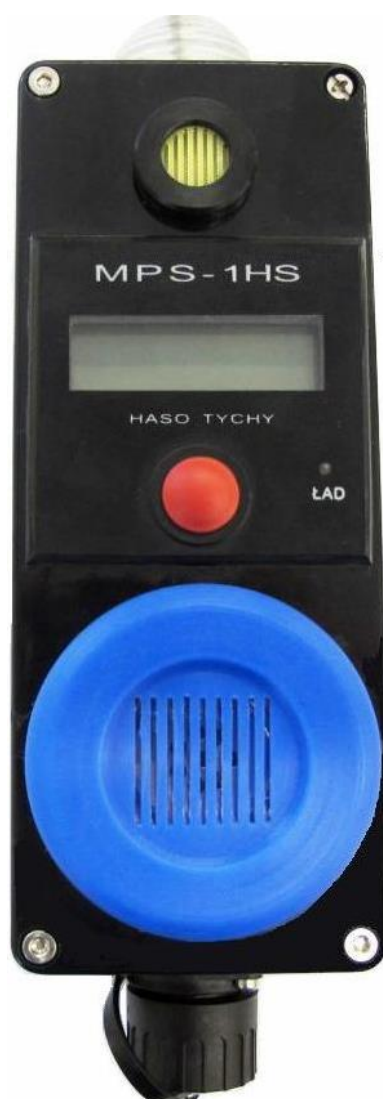


PORTABLE SIGNALLING GAS CONCENTRATION SENSOR **MPS-X**



Catalogue card



DESCRIPTION

Portable signalling gas concentration sensor MPS-X is designed to measure atmospheric parameters and signaling exceeding the gas concentration. The sensor is a universal device can be used in the following cases, as follows:

- Personal sensor,
- As a portable sensor, hung in a mining work place (also blasting work) or in underground vehicles e.g. railway locomotive
- As a stationary sensor with using switching-off outputs UW1, UW2.

Sensor is made in following types:

MPS-1CO – carbon monoxide concentration sensor

MPS-1ND – nitrogen dioxide concentration sensor

MPS-1NO – nitrogen oxide concentration sensor

MPS-1HS – hydrogen sulphide concentration sensor

MPS-1SD – sulfur dioxide concentration sensor

MPS-1O – oxygen concentration sensor

MPS-1CD – carbon dioxide concentration sensor

MPS-X has autonomous power supply (battery), which can supplies methane detector for minimum 30 hours. The loading of methane detector can be done by loader type MPS-1Ł only out of hazard area. In explosion hazard areas MPS-1, MPS-1i can be supply by suitable intrinsically safe feeder. This feeder supplies electronics of methane detector and loads battery. The sensor can be set to two alarm thresholds PA1 and PA2

BASIC TECHNICAL PARAMETERS

Sensor MPS-1R	
Power supply + calibrator	Un=12÷15V, In=0,25A
Power supply autonomy	min 30h; about 50h outwatch (without signaling excess)
Charging	only by loader MPS-1Ł out of hazard area
Auxiliary power	Uout = 3,5V
Scaling method	calibrator KR-2 (cable communication)
Measurement method	continuous, for version MPS-1CD also infrared.
Working temperature range	from -10 °C to + 40°C
Relative humidity range	from 0% to 95% without condensation
External dimensions	240 x 75 x 90 mm
Weight	1,4 kg
Casing internal protection	IP-54
Measurement range	MPS-1CO: 0÷1000ppm CO
	MPS-1ND: 0÷20ppm NO ₂
	MPS-1NO: 0÷250ppm NO
	MPS-1HS: 0÷100ppm H ₂ S
	MPS-1SD: 0÷50ppm SO ₂
	MPS-1O: 0÷25% O ₂
	MPS-1CD: 0÷5% CO ₂
Resolution	MPS-1CO: 1 ppm CO
	MPS-1ND: 0,01ppm NO ₂
	MPS-1NO: 0,1ppm NO
	MPS-1HS: 0,1ppm H ₂ S
	MPS-1SD: 0,1ppm SO ₂
	MPS-1O: 0,1% O ₂
	MPS-1CD: 0,01% CO ₂
Response time t ₉₀	MPS-1CO: ≤ 12s
	MPS-1ND: ≤ 25s
	MPS-1NO: ≤ 40s
	MPS-1HS: ≤ 30s
	MPS-1SD: ≤ 35s
	MPS-1O: ≤ 15s
	MPS-1CD: ≤ 25s

EXPLOSION-PROOF MARK



EC type examination certificate: FTZU 10 ATEX 0042X