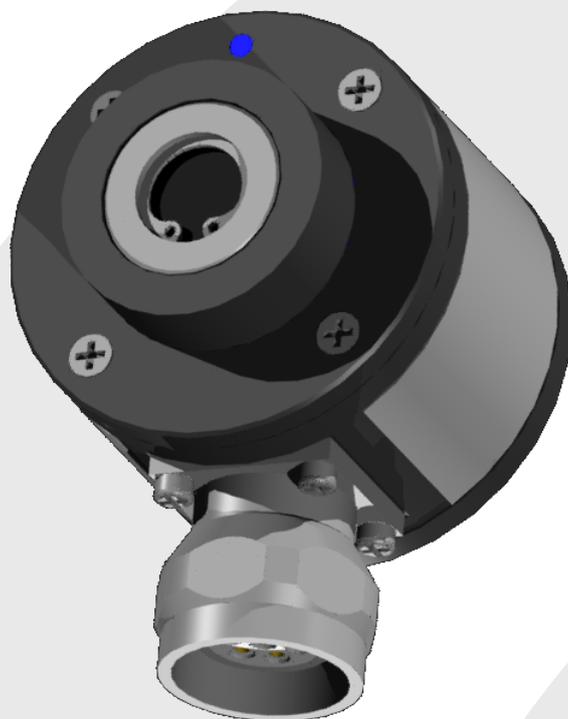


# CGP-1

Digital Measuring Instrument



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Digital Measuring Instrument



design

production

implementation

service

## Device description

Digital Measuring Instrument is a stand alone device designed for measurements of atmosphere parameters or concentration of selected gases and is suitable for connection with higher level elements of measuring system. The instrument can be mounted directly to cooperating device by the socket as well as using the housing handle and connection with a specific cable up to several dozens meters from other systems elements. The device is made using very durable housing with small dimensions and high degree of ingress protection IP-67. CGP-1 instrument is suitable for using in an environment with an explosive atmosphere - including mines underground and other industrial facilities. The measurements are conducted using several types of sensors including semiconductor elements, pellistors, infrared detectors or electrochemical elements.

The device is manufactured with different versions for specific measured parameter. Transmission to higher level device is conducted by an external connector which includes RS485 bus lines and analog output with 0.4V to 2.0V voltage level. The instrument contains internal microprocessor circuit which allows to calibrate internal measuring process and controls the sensors as well as collecting and transmitting the data to other devices.

## Basic parameters

ATEX certificate marking (pellistor version)	Ex I M1 Ex ia I Ma	Ex II 2G Ex ia II (CH4) Gb
ATEX certificate marking (others)	Ex I M1 Ex ia I Ma	Ex II 2G Ex ia IIC T4 Gb
Measurement ranges	T = -40°C ÷ 125°C	RH = 0 ÷ 100%
	p = 300hPa ÷ 1100hPa	CH4 = 0 ÷ 100%
	CO2 = 0 ÷ 2.5%	O2 = 0 ÷ 25%
	CO = 0 ÷ 2000ppm	H2S = 0 ÷ 50ppm
	NO2 = 0 ÷ 200ppm	SO2 = 0 ÷ 50ppm
	NH3 = 0 ÷ 1000ppm	
External transmission	RS485 or analog output 0.4 ÷ 2V	
Working temperature range	from -20°C to 40°C / 50°C	
Dimensions	85mm x 60mm x 66mm	
Weight	ca. 250g	
Ingress Protection code	IP-67	

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