

Detectors

Detectors can measure the concentration of explosive or toxic gases and vapours as well oxygen and carbon-dioxide.

								
Target gases	explosive gases and vapours	explosive gases and vapours	explosive gases and vapours	toxic gases and oxygen	toxic gases and oxygen	toxic gases and oxygen	carbon monoxid	carbon dioxide
Sensor type	semiconductor	catalytic	catalytic	electrochemical	electrochemical	electrochemical	electrochemical	two beams infrared
Ex protection	Ex II 2G Ex de IIB+H2 T5	Ex II 2G Ex de IIB+H2 T5	Ex II 2G EEx dem [ia] IIB+H2 T5	Ex II 2G EEx em [ia] IIC T5	-	Ex II 2G EEx em [ia] IIC T5	-	-
Maximal measuring range	0-100 LEL%	0-100 LEL%	0-100 LEL%	0-1000 ppm 0-25 vol% (O2)	0-1000 ppm 0-25 vol% (O2)	0-1000 ppm 0-25 vol% (O2)	0-1000 ppm	0-100 vol%
Operating temperature	-20 - +50 °C	-20 - +50 °C	-20 - +50 °C	-20 - +50 °C	-20 - +50 °C	-20 - +50 °C	-10 - +40 °C	-20 - +40 °C
Humidity	15 - 90 RH%	15 - 90 RH%	15 - 90 RH%	15 - 90 RH%	15 - 90 RH%	15 - 90 RH%	15 - 90 RH%	15 - 90 RH%
Pressure	900 - 1100 hPa	900 - 1100 hPa	900 - 1100 hPa	900 - 1100 hPa	900 - 1100 hPa	900 - 1100 hPa	900 - 1100 hPa	900 - 1100 hPa
Ingress protection	IP54	IP54	IP54	IP54	IP54	IP54	IP33	IP54
Power supply	5V DC	3,3V DC	14-28V DC	15-28V DC	15-28V DC	14-28V DC	14,5-28V DC	19-28V DC
Maximal current / power consumption	167mA / 835mW	70mA / 231mW	2W	0,7W depends on concentration	0,7W depends on concentration	2W	0,7W depends on concentration	180mA
Output signal	resistance changing	voltage changin 25mV / vol% / CH4	digital output	2 wires 4-20mA sink	2 wires 4-20mA sink	digital output	2 wires 4-20mA sink	3 wires 4-20mA sink
Response time T₉₀	9s / CH ₄	9s / CH ₄	9s / CH ₄	depends on sensor	depends on sensor	depends on sensor	depends on sensor	22s
Diameter of connected cable	8-17mm	8-17mm	(2x) 7-17mm	7-17mm	5-9mm	(2x) 7-17mm	(2x) 3-8mm	7-9mm
Cross section of connected cable	4x 0,5-2,5mm ²	3x 0,5-2,5mm ²	4x 1,5-2,5mm ²	2x 0,5-2,5mm ²	2x 0,5x2,5mm ²	4x 1,5-2,5mm ²	2x 0,5-1,5mm ²	3x 0,5-1,5mm ²
Dimensions (mm) w x h x d	115 x 108 x 102,5	115 x 108 x 102,5	184 x 202 x 103	167 x 97 x 97	157 x 97 x 97	173 x 202 x 103	91 x 88 x 42	135 x 126 x 95
Weight (kg)	0,6	0,6	1,46	0,75	0,7	1,42	0,115	0,55



Műszer Automatika Kft.
Hungary, H-2040 Budaörs, Komáromi utca 22.
internet: www.gazerzekelo.hu

Phone: (+36 23) 365-280
Fax: (+36 23) 365-087
e-mail: gaz@muszerautomatika.hu

Controllers

Controllers with connected detectors can prevent automatically the danger of explosion or poisoning.

	EXTOX-UNI I-1	EXTOX-UNI K2	GAS RAPTOR	EXTOX-UNI 12TM	EXTOX-UNI i12/KN	EXTOX-UNI I-12	GAS ExPERT-64
Maximal number of detectors	1pc	2pcs	12pcs	12pcs	12pcs	12pcs	64pcs
Power supply	230V AC 24V DC	230V AC 24V DC	230V AC 24V DC	230V AC 24V DC	230V AC 24V DC	230V AC 24V DC	230V AC 24V DC
Ingress protection	IP65	IP54	IP54	IP20	IP54	IP54	IP54
Operating temperature	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C
Connectable detector types	E-TD-S1/M E-TD-P1/M E-MC-E1 E-MC-NE1 ECO-CO-2 IRTA	E-TD-S1/M E-TD-P1/M E-MC-E1 E-MC-NE1 ECO-CO-2 IRTA	E-MC-E1 E-MC-NE1 ECO-CO-2	E-TD-S1/M E-TD-P1/M E-MC-E1 E-MC-NE1 ECO-CO-2 IRTA	E-TD-S1/M E-TD-P1/M E-MC-E1 E-MC-NE1 ECO-CO-2 IRTA	E-TD-S1/M E-TD-P1/M E-MC-E1 E-MC-NE1 ECO-CO-2 IRTA	I-TD-P1 I-MC-E1 I-NE-E1 I-NE-E2
Signals and outputs	4 alarm levels, mutable audible alarm, fault, 4-20 mA or 0,4-2V	2 alarm levels, mutable audible alarm, built in sounder, fault	4 alarm levels, mutable audible alarm, fault	2 alarm levels mutable audible alarm, fault, 4-20 mA or 0,4-2V	4 alarm levels, mutable audible alarm, fault, 4-20 mA or 0,4-2V +24V DC/1A for alarm units drive	4 alarm levels, mutable audible alarm, fault, 4-20 mA or 0,4-2V +24V DC/1A for alarm units drive	4 alarm levels, mutable audible alarm, fault, +24V DC/1A for alarm units drive
Display	3-digit 7-segment LED, LEDs	LEDs	signal lamps	3-digit 7-segment LED, LEDs	signal lamps	4 lines x 40 characters, back-lit LCD, LEDs	4 lines x 40 characters, back-lit LCD, LEDs
Relay outputs	6 db 250V/4A	4db 250V/2A	max. 16pcs. 250V/5A	3pcs./channel 50V/2A	max. 32pcs. 250V/5A	max. 32pcs. 250V/5A	max. 32pcs. 250V/5A
Dimensions (mm) w x h x d	310 x 165 x 94	312 x 229 x 130	400 x 300 x 150	513 x 180 x 350	400 x 400 x 200	500 x 500 x 250	500 x 500 x 250
Weight (kg)	1,5	2,9	5	11	8	10	15



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