

GENERAL SPECIFICATION

CONTROL UNITS

Warszawa



PURPOSE

CONTROL UNITS type **MD-8**... and **MD-16**... are dedicated to use with detectors type **DEX**[®]/**F**, **DG/F**, **DG.EN** made by GAZEX. MD units are able to control WG and AirTECH type detectors as well. MD is microprocessor controlled - available in two versions: up to 8-channel (MD-8...) or up to 16-channel (MD-16...).

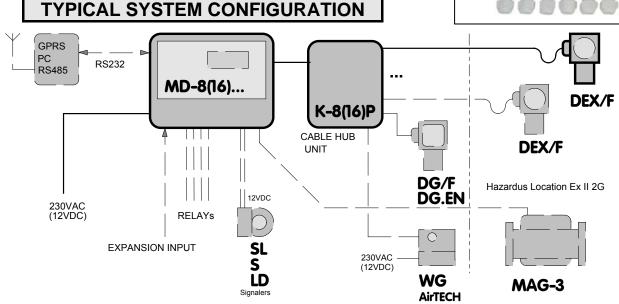
MD saves the alarm status of each detector connected to the device, until the manual reset of the memory is performed by operator. MD allows to control of external devices such as ventilators, contactors, valves, etc.

Control units are available with both voltage supply: 230VAC (model MD...B with automatic back-up) or 12VDC.

Model MD...Z sends cut-off signals to safety valve type MAG.



©gazex



SELECTING TABLE												
Model MD-	8	8.A	8.B	8.Z	8.ZA	8.ZB	16	16.A	16.B	16.Z	16.ZA	16.ZB
Max Detector channels	8	8	8	8	8	8	16	16	16	16	16	16
Relay Output	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2
Fault Relay Output	1	1	1	1	1	1	1	1	1	1	1	1
12DC Alarm Output	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2
12VDC Expansion Input	2	2	2	2	2	2	2	2	2	2	2	2
12VDC High-current Output	-	-	-	2	2	2	-	-	-	2	2	2
Power supply	230V AC	12V DC	230V AC									
Internal back-up Power supply			+			+			+			+
	PRODUCER:				GAZE	x						

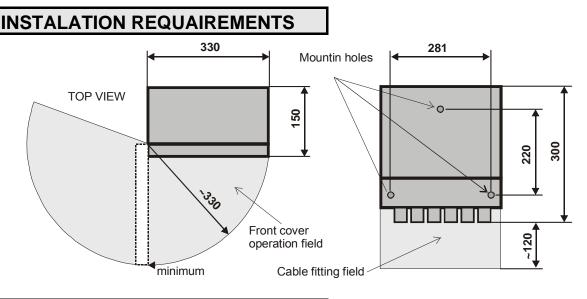


LIFE IS SAFE WITH US !

MD-8 MD-16 GENERAL SPECIFICATION issue 2U5en ©gazex'2011 v1107 1 / 2

OPERATIONAL FEATURES

- Power supply to all detectors 9VDC, overload control (each detector), all connections control
- Large LCD display with back-light, optical (LEDs) and acoustic signaling state of each detector/output
- Two virtual zones with separate outputs 2 control units in one
- Internal memory for more than 2000 events (back-up battery)
- Regulation for all timing parameters from front panel
- PC software for memory loading and parameters settings, RS232 terminal available
- External GPRS or RS485 control unit for two way operations available (optionally)
- Isolated alarm inputs, possibility to connect other MD/systems
- 12V alarm outputs for warning lamps and sirens and 12VDC low current power supply for external devices
- Relay outputs (each zone, each level), fault relay output
- Model MD...Z: two 12VDC high current outputs for cut-off safety valves with connections control
- Internal power supply back-up (model MD...B only)



TECHNICAL SPECIFICATION

Supply voltage	MD-8,16 (B, Z, ZB) : 230VAC (allowed: +10%,-14%)					
	MD-8,16 (A, ZA): 12VDC (allowed: 11.5V - 14.0V)					
Power consumption	max 65W (MDA : max 55W)					
Operating temperature	0°C do 40°C allowed,					
	+5°C do 35°C recommended, -5° C do 45°C instantaneous allowed (< 2h/8h)					
Store temperature	5°C do 35°C					
Number of channels	two threshold channels: 8 - (MD-8); 16 - (MD-16), in two virtual zones					
Alarm levels	2, warning - A1 (ALARM 1); alarming - A2 (ALARM 2) – (closing valve for MDZ)					
Alarm memory	inputs: LCD display+ buzzer , each channel and level					
	outputs: LED for each level; 2300 events in memory (battery back-up)					
Memory delete	manual reset button at front panel					
Inputs/outputs timing	inputs delay: 1 ÷ 20min. s pre-heating after switch on,					
	inputs delay: 10 s (3 ÷ 120 s can by set from front panel);					
	outputs delay: 10 s (3s ÷ 15min. can by set from front panel)					
Visual indication	LCD graphic display + ALARM1 (red LED), ALARM2 (red LED)					
Acoustic signaling	internal buzzer – aprox. 60dB/1m.					
Detectors supply voltage	9VDC, on LCD indication for each detector					
Fault alarm	"AWARIA" FAULT - yellow LED					
Fast test signal release	manually, "TEST" button under terminal cover					
Power indicator	green LED					
Relay outputs	NC/NO type for: A1 and A2 /zone + ΣA1, ΣA2, FAULT; non-voltage; max load: 8A					
	(resistive load) or 2A (motor) or 0,6A (inductive fluorescent lamps); 250VAC or 30VDC					
Voltage outputs	12VDC for A1, A2; summary load = max 0.3A, (supply for SL-31, S-3, LD-1)					
	12VDC impulse, for A2, high-current, cut-off of safety valve (MDZ only)					
	 12VDC supply for external MDX or others (max load = 0.2A) 					
Digital output	RS232, ASCI or MODBUS/RTU mode, 9600/19200bps, non-standard connector					
Expansion inputs	12VDC (photo couplers, 5-16V, max 20mA) for A1, A2; non-delay					
Dimensions, weight	300 x 330 x 150 mm, (H x W x D); approx. 3kg					
Enclosure	ABS, 9 cable glands, IP54, 3-point fitting					

MD-8 MD-16 GENERAL SPECIFICATION issue 2U5en ©gazex'2011 v1107 2 / 2