



Warsaw

GENERAL SPECIFICATION

CONTROL UNITS

MDP-4...
MDP-8...
MDP-16...

series U6

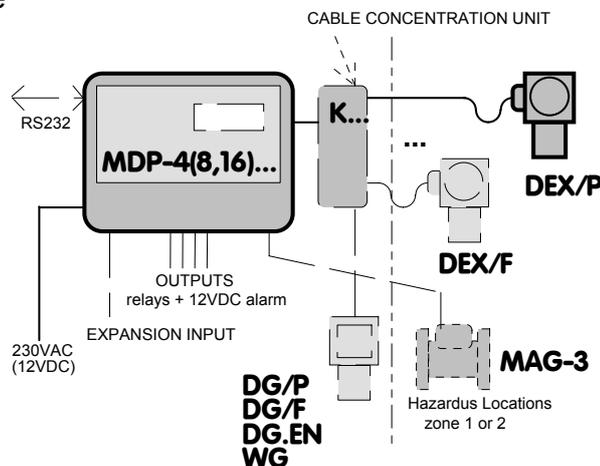
PURPOSE

CONTROL UNITS type **MDP-4.(A,B,Z,ZA,ZB)**, **MDP-8.(A,B,Z,ZA,ZB)**, **MDP-16.(A,B,Z,ZA,ZB)** are dedicated to use with 4-20mA transmitters/gas detectors type **DEX®/P** or **DG/P** made by GAZEX. MDP is microprocessor controlled - available in versions: up to 4, up to 8 or up to 16-channel with 4-20mA standard. MDP saves in internal memory the alarm status of each detector connected to the device. MDP allows control of the external devices: ventilators, contactors, etc., as well. Control units are available in both voltage supplies: 230VAC (version MDP...B with automatic back-up) or 12V DC. MDP...Z sends high-current signal to self-closing safety valves.



OPERATIONAL FEATURES

- Supply to all detectors - 9VDC, overload control
- Accepts 4-20mA standard passive transmitters on inputs [with K-8(16)P unit - all DEX,DG, WG type detectors]
- Large 5" LCD display with back-light
- Two virtual zones with separate outputs – 2 control units in one
- Internal memory for more than 2000 events (battery back-up)
- Regulation for all timing parameters from front panel
- RS232 terminal available, PC or MODBUS/RTU protocol
- PC software for memory loading and parameters settings
- External GPRS modem or RS485 converter for two way operations available
- Optical and acoustic signaling state of each detector/output
- 12VDC low current supply for external devices
- Alarm inputs, isolated, to connect other MDP or systems
- 12V Alarm outputs for warning lamps and sirens
- Relay outputs (each zone, each level)
- Fault relay output
- MDP...Z: two 12V high current outputs to shut-off valves
- Internal supply back-up (MDP...B only)

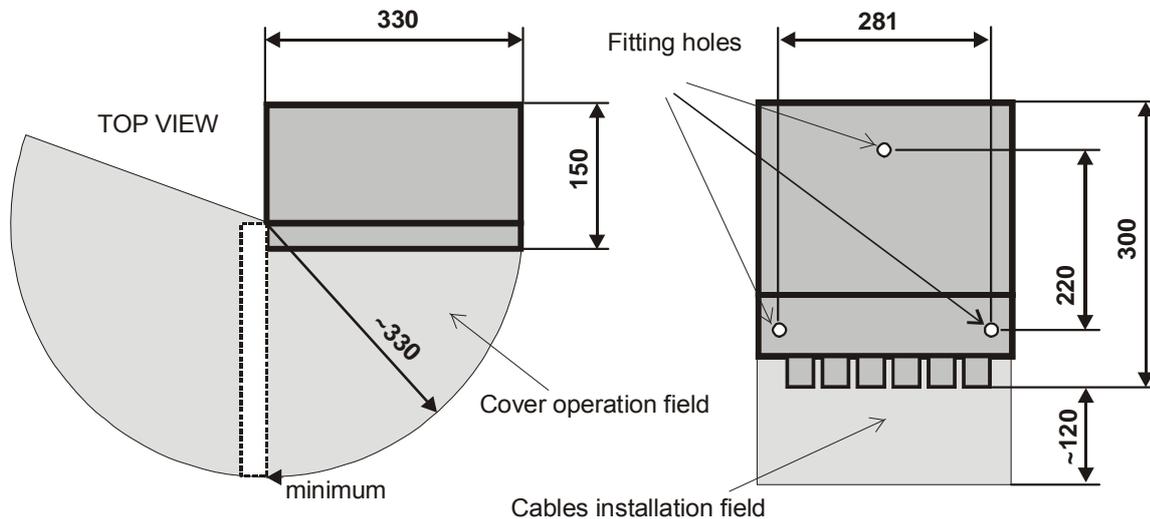


TYPICAL SYSTEM CONFIGURATION

SELECTING TABLE

TYPE	MDP-	4	4.A	4.B	4.Z	4.ZA	4.ZB	8	8...	16	16...
Max No Detectors/Transmitters		4	4	4	4	4	4	8	8	16	16
Relay Outputs (A1, A2)		2+2	2+2	2+2	2+2	2+2	2+2	2+2	same as for MDP-4...	2+2	same as for MDP-4...
Fault relay Output		1	1	1	1	1	1	1		1	
12VDC Alarm outputs (A1,A2)		2+2	2+2	2+2	2+2	2+2	2+2	2+2		2+2	
12VDC Alarm Inputs (A1, A2)		2	2	2	2	2	2	2		2	
12VDC high-current Output(s) (A2)		-	-	-	2	2	2	-		-	
Power supply		230V AC	12V DC	230V AC	230V AC	12V DC	230V AC	230V AC		230V AC	
Supply with Internal back-up				+			+				
Required cable concentration unit		not required						K-8P		K-16P	

INSTALATION REQUAIREMENTS



TECHNICAL SPECIFICATION

Supply voltage	MDP-4,8,16 (B, Z, ZB) : 230VAC (allowed: +10%,-14%) MDP-4,8,16 (A, ZA) : 12VDC (allowed: 10.5V - 13.8V)
Power consumption	max 65W (MDP...A : max 55W)
Operating temperature	0°C to 40°C allowed, +5°C to 35°C recommended, -5° C to 45°C shortly allowed (< 2/8h)
Store temperature	5°C do 35°C
Number of channels	4 (MDP-4...), 8 (MDP-8...); 16 (MDP-16...); 4-20mA standard; 2 virtual zones
Alarm levels	warning - A1 (ALARM 1), set by operator (0-100% range) alarming - A2 (ALARM 2) – set by operator, closing valve for MDP...Z overload - A3 (ALARM 3) – 100% range ($\geq 20\text{mA}$)
Alarm memory	inputs: LCD display, each channel and level; piezo-buzzer ; outputs: LED for each level; 2000 events in memory (battery back-up)
Memory delete	manual reset button at front panel
Inputs/outputs timing	inputs delay: 1 min. (1-15 min. set from panel) pre-heating after switch on, inputs delay: 10 s (3-120 s can by set from front panel); outputs delay: 10 s (3-120 s can by set from front panel)
Visual indication	5"LCD graphic display + ALARM1 (red LED), ALARM2 (red LED)
Acoustic	internal buzzer – approx. 60dB/1m.
Detectors supply voltage	9V DC, on LCD indication for each detector
Fault alarm	"FAULT" - yellow LED
Fast test signal release	manually reset, „OK” button
Power indicator	green LED
Relay outputs	NC and NO for A1, A2 each zone + $\Sigma A1$, $\Sigma A2$, FAULT, non-voltage; max load: 4A (resistive load) or 2A (motor) or 0,6A (inductive fluorescent lamps); 250VAC or 30VDC
Alarm voltage outputs	<ul style="list-style-type: none"> ■ 12VDC for A1, A2; summary load = max 0.3A, (supply for SL-21, S-3, LD-2) ■ 12VDC impulse, A2,high-current, to switch off valve (MD...Z only),each zone ■ 12VDC supply for external MDX or others units (max load = 0.2A)
Inputs	12VDC (photo couplers, 5-16V, max 20mA) for A1, A2; non-delay, for extension from other MD, MDP or fire system
Dimensions, weight	300 x 330 x 150 mm, (H x W x T); approx. 3,6 kg
Housing	ABS, 9 cable glands, IP54, 3-point fitting

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