



ML-12XX

MAXLOGIC SERIES INTELLIGENT ADDRESSABLE FIRE ALARM CONTROL PANEL



Maxlogic series intelligent addressable fire alarm control panels are compatible with Mavigard series devices and designed for EN54-2, EN54-4 standards. Maxlogic series fire alarm control panels, offering high performance by the VIP communication protocol, provide 2032 address capacity with its expandable modular structure up to 16 loops. Maxlogic series intelligent analogue addressable fire alarm control panels use advanced microprocessor technology for high level security. LCD with 240x64 adjustable blue backlight indicates fire alarm, fault and other information detail. Panel menu, serigraphy and Loop Manager software have 4 language options as Turkish, English, French and Russian.

Addressable detectors, buttons, loop-powered addressable sounders, interface modules (monitor and control modules) and analogue addressable gas detectors can be programmed, in order to operate in cause-effect scenarios and the fire automation can be built in this manner. Interaction to building management systems with Modbus and Bacnet protocols.

GENERAL INFORMATION

- Compatible with EN 54-2 and EN-54-4
- User friendly, easy installation and use with aesthetic design
- 4 programmable remote control inputs
- Communication interrupt for fast fire detection in 1.5 sec
- Up to 64 panels and/or repeater panels can be assembled with CAN protocol
- The key is needed for entry to panel menu
- Supervised peripheral devices, extension cards (power supply, loop extensions, printer...)
- Input/Output modules can be connected to panel
- Advanced parametric arrangement options for input/output devices
- 1000 automation scenarios can be created for each panel
- Day and night mode, pre-alarm, contamination warning into a network
- Top priority of fire alarm indication, different buttons for fire and other events, categorical classification due to events
- 1000 event log and programmable zones memory

ML-125X SERIES PANEL

- Expandable up to 16 loops, max. 2032 address capacity of each panels.
- Optional addition of products such as Network, Printer, Telephone and Announcement Module.

Product Code	Description	
ML-1250.N	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, O Loop, Network	
ML-1250.NPTA	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, O Loop, Network, Printer, Tel. PA.	
ML-1251	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 1 Loop, 127 Address	
ML-1251.NPTA	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 1 Loop, 127 Address, Network, Printer, Tel. PA.	
ML-1252	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 2 Loops, 254 Address	
ML-1252.NPTA	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 2 Loops, 254 Address, Network, Printer, Tel. PA.	
ML-1253	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 3 Loops, 381 Address	
ML-1253.NPTA	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 3 Loops, 381 Address, Network, Printer, Tel. PA.	
ML-1254 Maxlogic Intelligent Analogue Addressable System Fire Alarm Conti		
ML-1254.NPTA	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 4 Loops, 508 Address, Network, Printer, Tel. PA.	
ML-1255	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 5 Loops, 635 Address	

ML-1255.NPTA	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control	
	Panel, 5 Loops, 635 Address, Network, Printer, Tel. PA.	
ML-1256	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control	
	Panel, 6 Loops, 762 Address	
ML-1256.NPTA Maxlogic Intelligent Analogue Addressable System Fire Alarm (
	Panel, 6 Loops, 762 Address, Network, Printer, Tel. PA.	
ML-1257	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 7 Loops, 889 Address	
	, , ,	
ML-1257.NPTA	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 7 Loops, 889 Address, Network, Printer, Tel. PA.	
	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control	
ML-1258	Panel, 8 Loops, 1016 Address	
	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control	
ML-1258.NPTA	,	
	Panel, 8 Loops, 1016 Address, Network, Printer, Tel. PA.	
ML-1259	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control	
	Panel, 9 Loops, 1143 Address Maylagia Intelligent Applague Addressable System Fire Alarm Central	
ML-1259.NPTA	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control	
	Panel, 9 Loops, 1143 Address, Network, Printer, Tel. PA.	
ML-12510	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control	
	Panel, 10 Loops, 1270 Address	
ML-12510.NPTA	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control	
	Panel, 10 Loops, 1270 Address, Network, Printer, Tel. PA.	
ML-12511	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control	
	Panel, 11 Loops, 1397 Address	
ML-12511.NPTA	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control	
	Panel, 11 Loops, 1397 Address, Network, Printer, Tel. PA.	
ML-12512	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control	
	Panel, 12 Loops, 1524 Address	
ML-12512.NPTA	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control	
	Panel, 12 Loops, 1524 Address, Network, Printer, Tel. PA.	
ML-12513	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control	
	Panel, 13 Loops, 1651 Address	
ML-12513.NPTA	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control	
]	Panel, 13 Loops, 1651 Address, Network, Printer, Tel. PA.	
ML-12514	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control	
.712 12314	Panel, 14 Loops, 1778 Address	
ML-12514.NPTA	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control	
1012 1231 101 17	Panel, 14 Loops, 1778 Address, Network, Printer, Tel. PA.	
ML-12515	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control	
1416 12313	Panel, 15 Loops, 1905 Address	
ML-12515.NPTA	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control	
12313	Panel, 15 Loops, 1905 Address, Network, Printer, Tel. PA.	
ML-12516		
IVIL 12310	Panel, 16 Loops, 2032 Address	
ML-12516.NPTA	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control	
IVIL-12510.INPTA		
	Panel, 16 Loops, 2032 Address, Network, Printer, Tel. PA.	

ML-124X SERIES PANEL

- Expandable up to 8 loops, max 1016 address capacity of each panels.
- Event logs can be printed instantly or collectively by the printer module

Product Code	Description		
ML-1240	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, O Loop with printer		
ML-1240.N	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, O Loop with printer, Network		
ML-1241.P	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 1 Loop, 127 Address, Printer		
ML-1241.NP	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 1 Loop, 127 Address, Network, Printer		
ML-1242.P	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 2 Loops, 254 Address, Printer		
ML-1242.NP	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 2 Loops, 254 Address, Network, Printer		
ML-1243.P	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 3 Loops, 381 Address, Printer		
ML-1243.NP	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 3 Loops, 381 Address, Network, Printer		
ML-1244.P	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 4 Loops, 508 Address, Printer		
ML-1244.NP	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 4 Loops, 508 Address, Network, Printer		
ML-1245.P	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 5 Loops, 635 Address, Printer		
ML-1245.NP	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 5 Loops, 635 Address, Network, Printer		
ML-1246.P	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 6 Loops, 762 Address, Printer		
ML-1246.NP	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 6 Loops, 762 Address, Network, Printer		
ML-1247.P	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 7 Loops, 889 Address, Printer		
ML-1247.NP	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 7 Loops, 889 Address, Network, Printer		
ML-1248.P	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 8 Loops, 1016 Address, Printer		
ML-1248.NP	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 8 Loops, 1016 Address, Network, Printer		
ML-1240	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 0 Loop with printer		

ML-1240.N	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control	
IVIL-1240.IN	Panel, 0 Loop with printer, Network	
ML-1241.P	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control	
IVIL-1241.P	Panel, 1 Loop, 127 Address, Printer	
ML-1241.NP	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control	
IVIL-1241.INP	Panel, 1 Loop, 127 Address, Network, Printer	

ML-123X SERIES PANEL

• Expandable up to 8 loops, max 1016 address capacity of each panels

Product Code	Description	
ML-1230	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel,0 Loop	
ML-1230.N	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, O Loop, Network	
ML-1231	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 1 Loop, 127 Address	
ML-1231.N	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 1 Loop, 127 Address, Network	
ML-1232	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 2 Loops, 254 Address	
ML-1232.N	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 2 Loops, 254 Address, Network	
ML-1233	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 3 Loops, 381 Address	
ML-1233.N	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 3 Loops, 381 Address, Network	
ML-1234	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 4 Loops, 508 Address	
ML-1234.N	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 4 Loops, 508 Address, Network	
ML-1235	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 5 Loops, 635 Address	
ML-1235.N	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 5 Loops, 635 Address, Network	
ML-1236	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 6 Loops, 762 Address	
ML-1236.N	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 6 Loops, 762 Address, Network	
ML-1237	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 7 Loops, 889 Address	
ML-1237.N	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 7 Loops, 889 Address, Network	
ML-1238	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 8 Loops, 1016 Address	
ML-1238.N	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control Panel, 8 Loops, 1016 Address, Network	

ML-1230	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control
WIE-1230	Panel,0 Loop
ML-1230.N	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control
IVIL-1230:IV	Panel, O Loop, Network
ML-1231	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control
IVIL-1231	Panel, 1 Loop, 127 Address
ML-1231.N	Maxlogic Intelligent Analogue Addressable System Fire Alarm Control
	Panel, 1 Loop, 127 Address, Network

INDICATORS AND BUTTONS

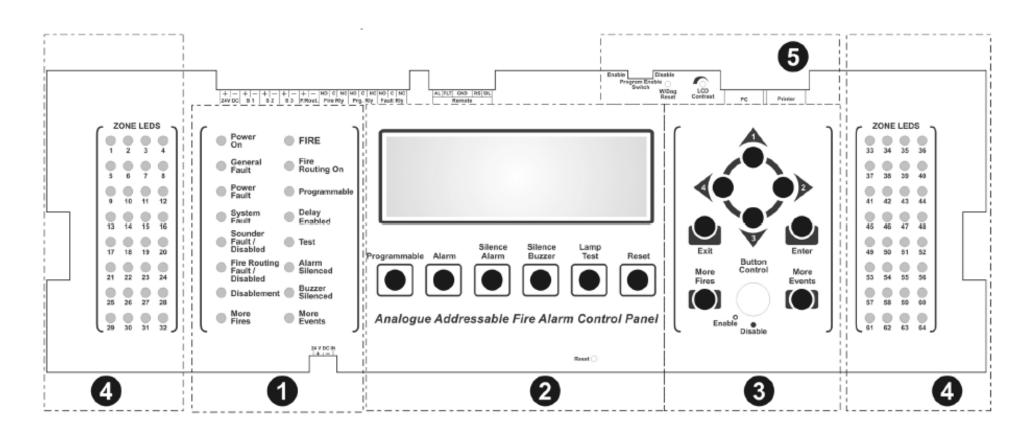


Fig 1: Panel front face sections

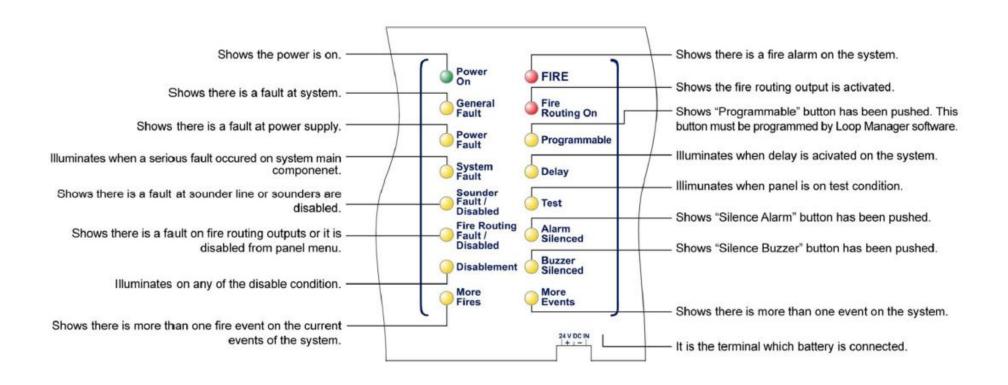


Fig 2: Panel front face sections 1 definitions

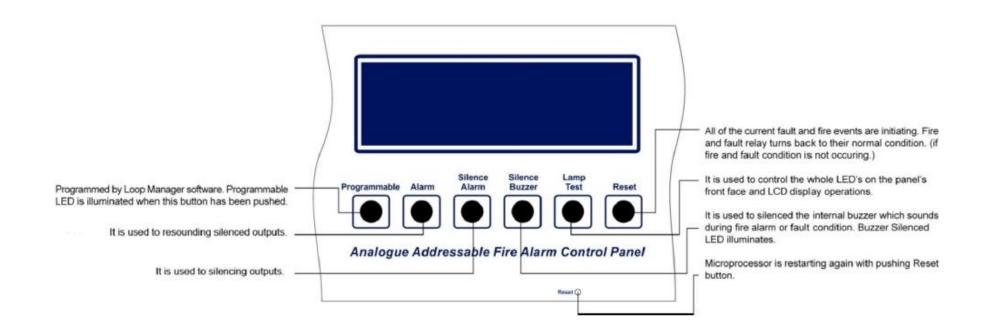


Fig 3: Panel front face sections 2 definitions

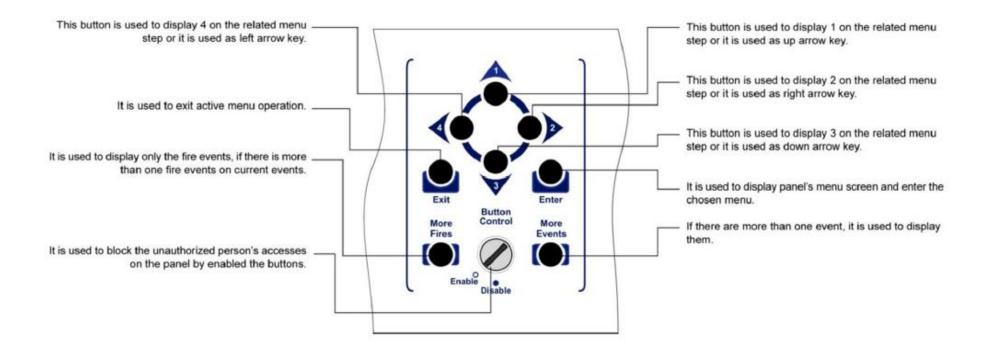


Fig 4: Panel front face section 3 definitions

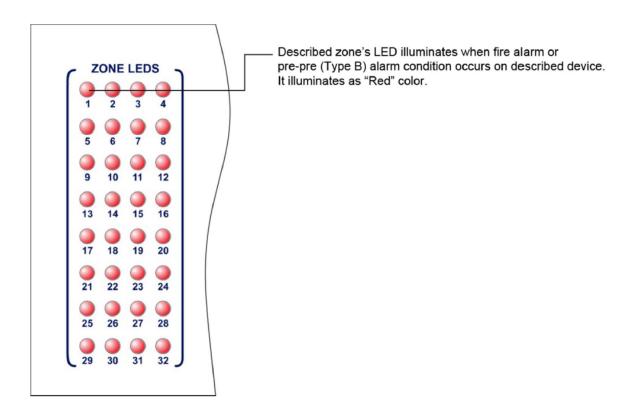


Fig 5: Panel front face section 4 definitions

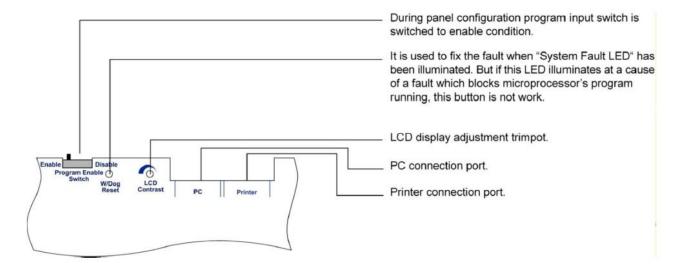
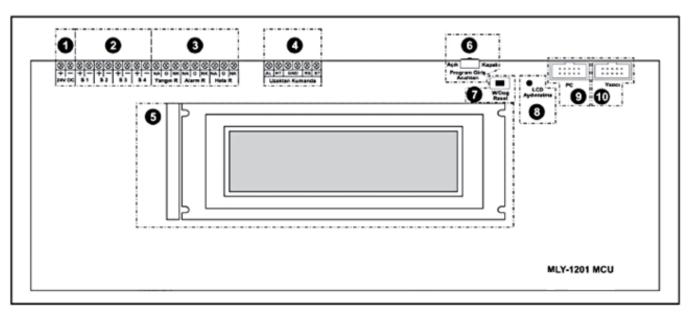


Fig 6: Panel front face section 5 definitions

INPUTS AND OUTPUTS



- 1. Auxiliary 24V DC supply output for external devices
- 2. Sounder outputs (4X 500mA)
- 3. Dry contact relay outputs (Fire, Alarm, Fault Relay)
- 4. Connection to the remote control inputs
- 5. 240x64 Graphic LCD screen
- 6. The program input switch
- 7. Watch dog reset button
- 8. LCD lighting trimpod for setting
- 9. Computer connection socket
- 10. Printer connection socket

MECHANICAL AND EXTERNAL ENVIRONMENTAL DESCRIPTION

ML-123X Mechanical description		
Height	370 mm	
Width	500 mm	
Depth	140 mm	
Weight (Batt. exc.)	~ 6,7 - 7,75 kg (*)	
Construction	1mm DKP	
Finish	Epoxy paint	
Mounting	Surface, flush mount	
Standard color	Grey tone (RAL 7015), white panel frontcase	

^{*} It can be change depends on loop capacity.

ML-124X Mechanical description		
Height	370 mm	
Width	500 mm	
Depth	140 mm	
Weight (Batt. exc.)	~ 8,75 - 9,85 kg (*)	
Construction	1mm DKP sac	
Finish	Epoxy paint	
Mounting	Surface, flush mount	
Standard color	Grey tone (RAL 7015), white panel frontcase	

^{*} It can be change depends on loop capacity.

ML-125XX Mechanical description		
Height	800 mm	
Width	650 mm	
Depth	205 mm	
Weight (Batt. exc.)	~ 34,25– 35,70 kg (*)	
Construction	Body 1.2mm DKP - Cover 1.5mm DKP	
Finish	Epoxy paint	
Mounting	Surface	
Standard color	Red-white panel frontcase	

^{*} It can be change depends on loop capacity.

ML-12XX Environmental ratings descriptions		
Operating temp. range	(-5°C) - (+50°C)	
Operating humidity range	%0-95 (non-condensing)	

Power Supply output descriptions	
Power output	150 Watt
Main supply input	230V AC (+10% / -15%) 50 Hz
Load output	20°C'de 27,3V DC (19V min - 30V max)
	temperature-compensated
Load output fuse	5A 250V Ceramic Type 5x20mm
	(Littelfuse 0215005.P)
230V AC Fuse	5A 250V Ceramic Type 5x20mm
	(Littelfuse 0215005.P)
Ripple Factor	1.5 V
Quiescent current in the event of a mains	50mA

failure	
Min. current from the power supply (Imin)	0,2 A

Battery descriptions		
Batter	· ·	
	(ML-123X, ML-124X series)	
<u> </u>	4 pcs. 12V DC lead-acid (ML-125XX series)	
Battery capacit		
Battery charge outpu		
Datham share surre	temperature-compensated	
Battery charge currer		
Low battery voltage fau		
Battery power voltag	ge 19±1 Volt	
The output current of the battery is fu (Imaxl		
The output current of the battery	is 3,9 A	
empty(Imax		
Max. battery impedance (Rima:	x) 0,55 Ω	
Loop output descriptions		
Max. currer	nt For each loop 200mA	
Protectio	n Protection of short-circuit 500mA	
Communicatio	n VIP	
Transmission typ	semi duplex, 2 wire series synchronous digital communication, time-based transmission, current detection	
Data exchange rat	e About 1500 bit / sec	
The basic source voltage rang	ge 18V DC - 24V DC	
Bumping the voltage rang	ge 27 V DC - 33V DC	
Operating currer	Digital 0 - loop current + 0 mA Digital 1 - loop current + 37mA	
Fault contro	ol Post-parity equivalence	
Polling tim	e 9 sec. for each loop	
Interrupting response tim	e Max 3 sec	
Max. address quantity of a loo		
Max. zone quantit	64 LED indicators, As a software, up to 1000 zones can be defined.	
Output description		
Sounder outputs a	x (24V DC 500 mA), programmable, supervise, utomatic fuse protection, 10 KΩ end of line esistor.	
The cable specifications for sounder outputs	hould be able to carry 500mA	

Fire alarm relay	30V DC 1A dry contact, programmable
Alarm Relay	30V DC 1A dry contact, programmable
Fault relay	30V DC 1A dry contact, programmable
Auxiliary 24V output	24V DC 500 mA automatic fuse protection
The cable specifications for auxiliary	Should be able to carry 500mA
24V output	

Network output descriptions	
Nodes quantity	64
Max. Network cable distance	1200m
Communication protocol	CAN / 20000 baud
Cable type	Cat6 FTP

Cable descriptions	
Sounder cable	2x1,5 LIHH FE 180
Loop cable	1x2x0.8+0.8JH(st)H / 1x2x1.5+1.5JH (st) H