

# 116-901110 Control cabinet

Fire Suppression  
Product datasheet

## Features

- Manual and automatic activation
- 88 – 264 VAC supply
- 24 VDC/10A Switch mode power supply
- 24 VDC Battery back up
- RS 485/422 communication
- RS 232 communication
- RJ45 Ethernet communication
- Built in pump starter for 1,1 – 11 kW pump
- Steel cabinet with IP 66 protection
- LED lamps
- Cabinet supplied with gland plate
- Marine type approved components
- 5, 10, 15 or 20 zones

## Applications

The control panel can operate any type of active fire suppression system. Typical systems can be dry pipe water mist, deluge, foam and water spray, or wet pipe water mist or sprinkler systems.

Dry pipe water mists systems can be local application for manual or automatic activation; either by built-in detector loops, or signal from ships fire detection system, or built in AutoSafe I/O units.

Dry pipe total flooding systems, stand alone or in combination with local protection and accommodation wet pipe systems.

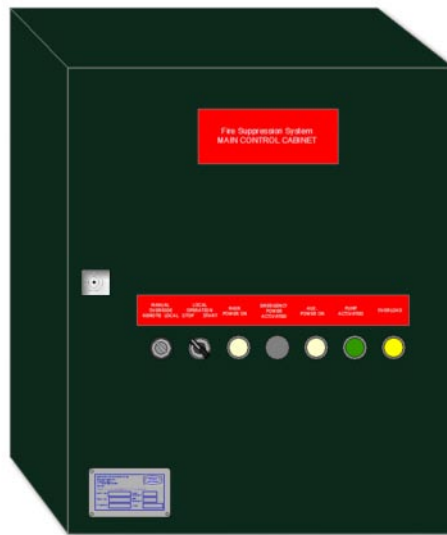
Stand alone dry pipe water/foam deluge/drencher systems or in combination with water mist.

## Cabinet

The enclosures have been especially designed for use in demanding marine environments, and are therefore ideal for the enclosure of electric, hydraulic and pneumatic control units. Cabinets are manufactured in mild steel, polyester painted in the black colour RAL 9005.

The cabinet have bottom flange knockouts. The cabinets are easy to assemble, and the wide range of sizes makes it easy to create modules in many different sizes and shapes.

The cabinet is supplied with a mounting plate, as standard. The door is fitted with a quarter-turn slotted fastener



## Technical specifications

Weight	Average 25 Kg
Material	Steel
Dimension B x H x D mm	750 x 900 x 200
Finish	Black RAL 9005
Degree of protection	IP 66 Minimum
Operation temperature	0 - + 55 °C
Storage temperature	- 25 - + 70 °C
Voltage tolerance operation	- 15% to + 10%
Motor starters specification	73/23/EEC and 89/336/EC
Control circuit voltage	24 VDC
Control voltage input	88 – 264 VAC/50-60 Hz
Overload protection	73/23/EEC and 89/336/EC
Lamps / Switches	73/23/EEC and 89/336/EC
Approvals	According to application
Protocol's supported	MODBUS PROFINET
Power consumption	1,550 Amp (NOTE 1)
NOTE 1	All inputs/outputs activated
PLC EMC	IEC 61000-4-2/-4/-5/-6
PLC Shock test	IEC 60068-2-27 (15 g/11 ms)

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Protecting life, environment and property...



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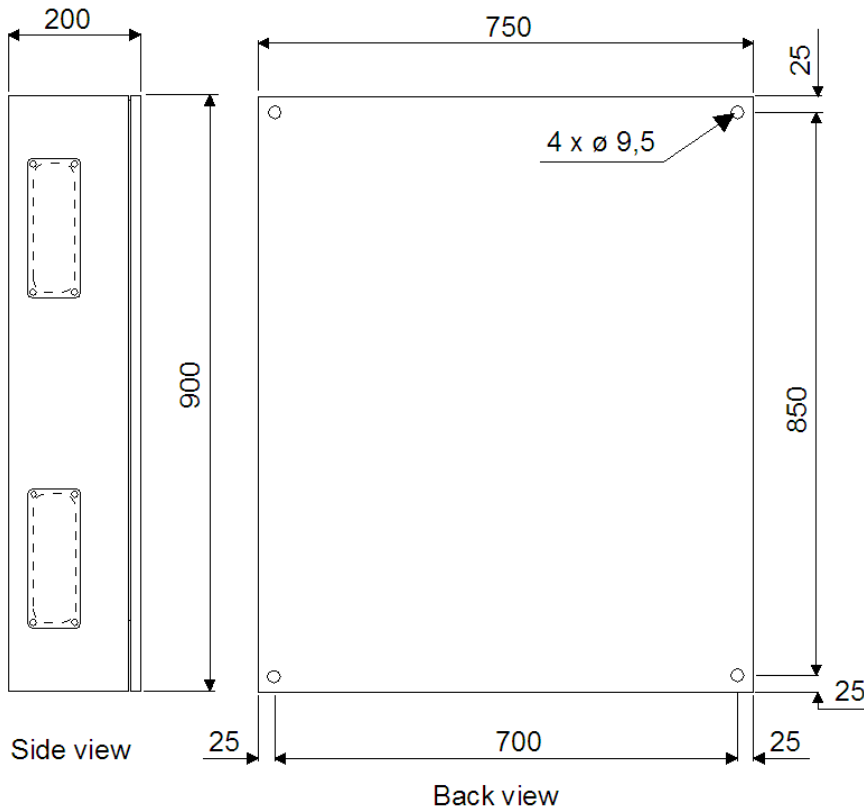
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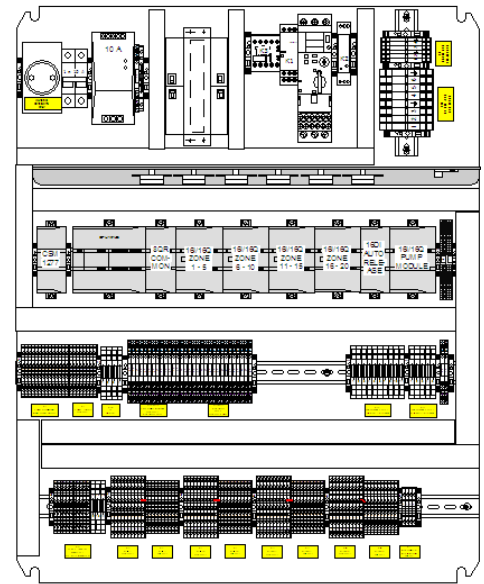
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Footprint



Internal view, typical



Internal view, typical

Typical applications

Application	Digital inputs 24 VDC	Transistor outputs 0,5 A	Relay outputs 2A	Analogue Inputs 4 – 20 mA	Analogue Inputs 0 – 10 V
5 Zone local protection PB	46 Ea	10 Ea	40 Ea		2 Ea
10 Zone local protection PB	62 Ea	10 Ea	56 Ea		2 Ea
5 Zone local protection TP	30 Ea	10 Ea	24 Ea		2 Ea
10 Zone local protection TP	46 Ea	10 Ea	40 Ea		2 Ea
15 Zone local protection TP	62 Ea	10 Ea	56 Ea		2 Ea
20 Zone local protection TP	78 Ea	10 Ea	70 Ea		2 Ea
5 Zone local protection TP DETECTOR	30 Ea	10 Ea	24 Ea	8 Ea	2 Ea
10 Zone local protection TP DETECTOR	46 Ea	10 Ea	40 Ea	16 Ea	2 Ea
15 Zone local protection TP DETECTOR	62 Ea	10 Ea	56 Ea	16 Ea	2 Ea
5 Zone local protection TP AUTO	46 Ea	10 Ea	24 Ea		2 Ea
10 Zone local protection TP AUTO	46 Ea	10 Ea	40 Ea		2 Ea
15 Zone local protection TP AUTO	46 Ea	10 Ea	56 Ea		2 Ea
5 Zone total flooding PB	62 Ea	10 Ea	56 Ea		2 Ea
10 Zone total flooding PB	78 Ea	10 Ea	70 Ea		2 Ea
5 Zone total protection TP	46 Ea	10 Ea	40 Ea		2 Ea
10 Zone total protection TP	62 Ea	10 Ea	56 Ea		2 Ea
15 Zone total protection TP	78 Ea	10 Ea	70 Ea		2 Ea
20 Zone total protection TP	94 Ea	10 Ea	86 Ea		2 Ea
5 Zone total protection TP / 5 Zone AUTO	62 Ea	10 Ea	40 Ea		2 Ea
10 Zone total protection TP / 10 Zone AUTO	78 Ea	10 Ea	56 Ea		2 Ea

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Application	Digital inputs 24 VDC	Transistor outputs 0,5 A	Relay outputs 2A	Analogue Inputs 4 – 20 mA	Analogue Inputs 0 – 10 V
15 Zone total protection TP / 15 Zone AUTO	94 Ea	10 Ea	70 Ea		2 Ea
20 Zone total protection TP / 15 Zone AUTO	110 Ea	10 Ea	86 Ea		2 Ea
8 Zone accommodation	46 Ea	10 Ea	24 Ea		2 Ea
8 Zone acc./ 5 Zone total flooding	62 Ea	10 Ea	40 Ea		2 Ea
8 Zone acc./ 10 Zone total flooding	78 Ea	10 Ea	56 Ea		2 Ea
8 Zone accommodation / 7 Zone deluge	62 Ea	10 Ea	40 Ea		2 Ea
8 Zone accommodation / 14 Zone deluge	78 Ea	10 Ea	56 Ea		2 Ea
16 Zone accommodation / 7 Zone deluge	62 Ea	10 Ea	40 Ea		2 Ea
16 Zone accommodation / 14 Zone deluge	94 Ea	10 Ea	56 Ea		2 Ea
8 Zone acc./ 5 Zone total flooding / 7 Zone deluge	78 Ea	10 Ea	56 Ea		2 Ea
8 Zone acc./ 5 Zone total flooding / 14 Zone deluge	94 Ea	10 Ea	70 Ea		2 Ea
16 Zone acc./ 5 Zone total flooding / 14 Zone deluge	110 Ea	10 Ea	70 Ea		2 Ea
PB = Push button panel					
TP = Touch screen					
DETECTOR = Built in detector loop for conventional detectors					
AUTO = Including digital inputs for signal from ships fire detection or from AutoSafe IO					

### PLC CPU and I/O Units

Part number	Description	Digital inputs 24 VDC	Transistor outputs 0,5 A	Relay outputs 2A	Analogue Inputs 4 – 20 mA	Analogue Inputs 0 – 10 V
116-141960	CPU S7-1214C	14 Ea	10 Ea			2 Ea
116-141962	SM 1224 DI	16 Ea				
116-141964	SM 1222 DQ			8 Ea		
116-141966	SM 1223 DI	16 Ea		16 Ea		
116-141968	SM 1231 AI 13 bit				8 Ea	
116-141972	CSM 1277 4 Port RJ45 ethernet switch, unmanaged					

### Pump starter specification

Overload Part number	Description	Current rating	230 VAC	380-440 VAC	690 VAC
			Motor power		
116-140058	Compact start 3 – 12 A	3,0 – 12,0 A	1,1 kW – 3,0 kW	1,1 kW – 5,5 kW	1,1 kW – 7,5 kW
116-140059	Compact start 8 – 32 A	8,0 - 32,0 A	4,0 kW – 7,5 kW	7,5kW – 15,0 kW	9,0 kW – 30,0 kW

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