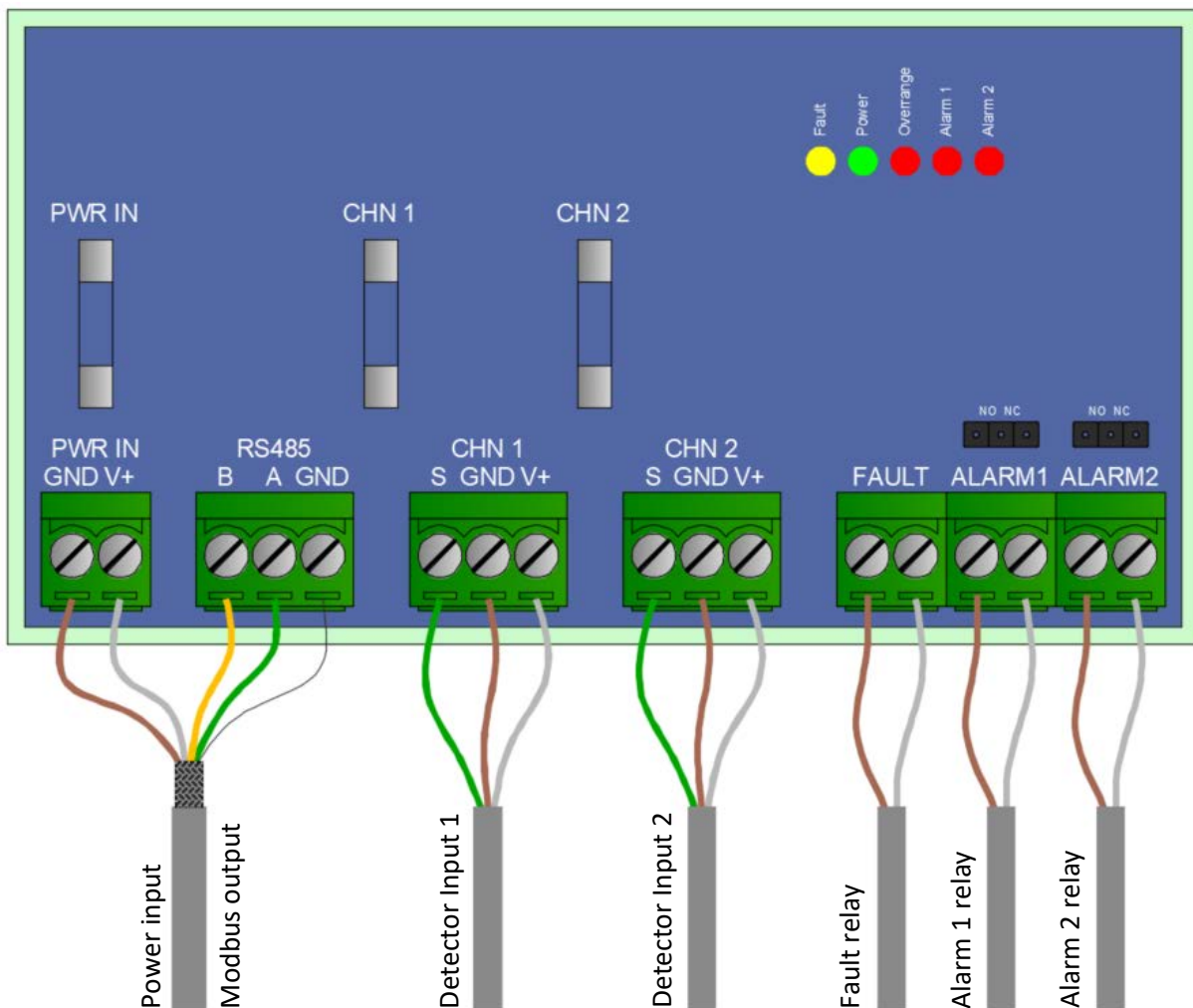


Analogue Input Module

Prosense provides analogue input module to connect detectors with analogue output to DPX Panel MODBUS Chain. The module has two input ports to connect analogue detectors and connects them to DPX Panel as MODBUS detector. Module converts 4-20mA measurement signal coming from detectors to MODBUS data and performs MODBUS communication with the panel. Any detector that has 4-20mA output can be part of MODBUS chain of DPX panel with DPX-Analogue module. Module needs power input to operate and must be connected to panel MODBUS chain as similar to MODBUS detectors.

Analogue module also provides Fault, Alarm1 and Alarm2 relay outputs for the connected detectors. The relays automatically activate depending on the detector alerts.



Analogue module has 3 relay outputs as listed below:

Port	Usage	Energy	Contact (NO / NC)
Fault	Fault Relay output	Energised	NO
AL1	Alarm 1 Relay output	Non-Energised	NO/NC
AL2	Alarm 2 Relay output	Non-energised	NO/NC

Analogue Module relay configuration

Alarm relays have 3 pins grouped on board to adjust NO/NC option. The relay output pin positions shown below:

	Normally Open (NO)
	Normally Close (NC)

There are 3 fuses located on the electronic board. If replacement needed, plastic cover must be removed and fuse must be replaced with the new one.

Fuse	Rating
PWR IN	2000mA
CHN 1	500mA
CHN 2	500mA

Fuse Details

Connector	Pins	Usage
PWR IN	V+	Power input 12-28VDC + connection
	GND	Power input 12-28VDC - connection
RS485	A	MODBUS Connection to DPX panel - port A
	B	MODBUS Connection to DPX panel - port B
	GND	MODBUS Connection to DPX panel - port Ground
CHN 1	S	Channel-1 Detector Connection 4-20mA signal input
	GND	Channel-1 Detector Connection Ground
	V+	Channel-1 Detector Connection +24VDC
CHN 2	S	Channel-2 Detector Connection 4-20mA signal input
	GND	Channel-2 Detector Connection Ground
	V+	Channel-2 Detector Connection +24VDC
FAULT	FAULT	Fault Relay output NC pin
	COM	Fault Relay output Common pin
ALARM1	ALARM-1	Alarm-1 Relay output NO/NC pin
	COM	Alarm-1 Relay output Common pin
ALARM2	ALARM-2	Alarm-2 Relay output NO/NC pin
	COM	Alarm-2 Relay output Common pin

Pin Details

Analogue module default MODBUS address of the module is 1 and 2. The detector connected to channel-1 automatically assigned to MODBUS address 1 and detector connected to channel-2 automatically assigned to MODBUS address 2. Analogue module can be configured and assigned to different address via configuration software. In any case module will have two subsequent addresses based on the base address. For example if user assign MODBUS address 25 the detector on channel-1 will have MODBUS address 25 and channel-2 MODBUS address 26.

Analogue input module have 5 LEDs that shows the status of the device.

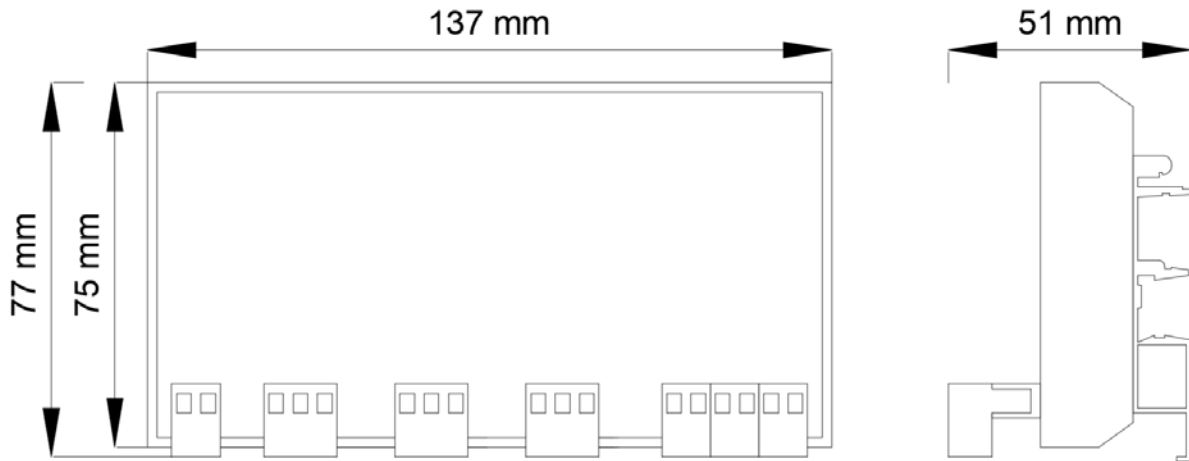
LED	Colour	Signal
Fault	Yellow	Off in normal operation, constant lit in fault
Power	Green/Red	Off when there is no power, blinks green or red in normal operation
Overrange	Red	Off in normal operation, constant lit in over range
Alarm 1	Red	Off in normal operation, constant lit in alarm 1
Alarm 2	Red	Off in normal operation, constant lit in alarm 2

LED Details

Specifications	Details
Inputs	2x 3 wire 4-20mA analogue signal input and power for detectors
Monitoring	Simultaneously monitoring measurement levels, alarm and fault status
Relay Outputs	FAULT, ALARM1, ALARM2, Adjustable NO/NC contacts for alarm outputs, 30VAC/VDC, 1A
LED Indicators	Power/On, FAULT, ALARM1, ALARM2, LEDs for overall monitoring
Programming	User friendly software enables easy programming with software
Power Input	12-28VDC ±%10
Ingress Protection	-
Humidity	10-95%RH Non-Condensing
Operating Temp.	-20 °to + 60 °C
Dimensions/Weight	160 gr
Mounting	Din Rail

Specifications

Analogue modules have no enclosure and must be mounted inside a panel or junction box depending on the needs of the installation.



Dimensions