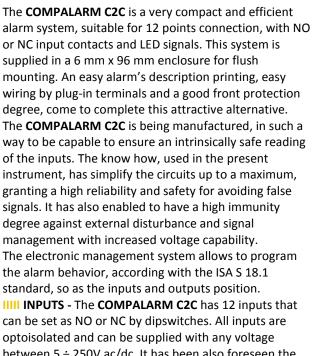


# COMPALARM C2C

#### **GENERAL**

- Compact alarm system, with a basic module of 12 signals
- Multiple modules coupling possibility
- Easy printing of the alarm points description
- Opto-isolated inputs for 24,48,115, 230 Vac/dc NO or NC contacts, which can be set point by point
- Signal power free inputs
- 7 alarm sequence possibilities according with ISA S 18.1
- Easy and fast programming by dipswitches
- "First out" feature for recognizing the first tripped alarm
- ModbusRTU protocol via RS485 serial port
- ModbusTCP protocol via Ethernet module
- Interconnected systems for Alarm Management, distributed in various units
- High safety and reliability



between 5 ÷ 250V ac/dc. It has been also foreseen the inputs for acknowledgement, test and reset push buttons.

**IIIII OUTPUTS** - The outputs are fitted with two voltage free contacts relays. One of them is intended for the acoustic or alarm signaling and the other for a cumulative of alarms (normally excited or diexcited in case of alarm) for process activation approval, in presence of one active alarm (or non resetted yet) at least.



The mentioned relay will also react due to a lack of power supply or due to its internal malfunction.

**IIIII INTERCONNECTION WITH OTHER MODULES** - With the wiring of one cable through other similar devices, it is possible to enlarge the system, which will work as an unique system, in order to grant a correct operation of the various alarm sequences, "first out" function included. In such a case, the outputs can be detected by any of the interconnected modules.

#### **IIIII PROGRAMMING AND OPERATION**

Each COMPALARM C2C module accepts up to 12 contacts, with a common pole, either open or closed in a rest position, which can be set for each input by dipswitches, placed behind the alarms description panel. The activation, memory and reset modes can be selected among the 8 most common sequences, according with the ISA 18.1 standard ISA A - ISA M - ISA R - ISA M5 -ISA F1A – ISA F1M – ISA F3 A.

The mentioned sequences have following basic sequences:

ISA A Automatic reset.

ISA M Manual reset.

ISA R Ringback.

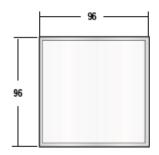
ISA M5 Signaling like ISA-M, but without flashing, when optical signaling.

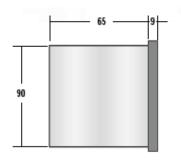
ISA F1A Automatic reset "first out" with no subsequent alarm state.

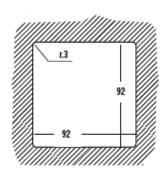
ISA F1M Manual reset "first out" with no subsequent alarm state.

ISA F3A Automatic reset "first out" with first out flashing and reset pushbutton

## **DIMENSIONS**



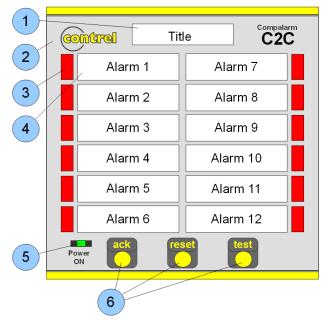




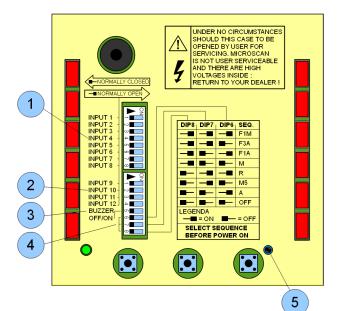
## **ELECTRICAL CHARACTERISTICS**

MAIN POWER SUPPLY TYPE		Input channels	12 OPTOCOUPLED
Supply voltage	115 or 230 V - 50/60Hz or 85÷265Vac/dc	Input pushbuttons	4 OPTOCOUPLED
Power consumption	4.5 VA MAX	Inputs Voltage	24 / 48 / 115 / 230 Vac/dc ± 20%
Line fuse (external)	500 mA	Inputs current	5 mA MAX
LOW VOLTAGE SUPPLY TYP		Extension line	1000 m MAX
Supply voltage	20÷60Vac/dc	Power-on delay	5 s
Power consumption	4.5 VA MAX	Galvanic separation	Inputs   Outputs   Supply
Line fuse (external)	1 A	Test voltage	2500 V @ 50 Hz, 1 minute
TERMINALS SCREW AND PL	UG TERMINAL BLOCK	Isolation voltage	300 VRMS max
Operating temperature	0 ÷ 60 °C	EMC Compliance Directive	EMC 89/336/EEC
Storage temperature	-20 ÷ 80 °C	Emission	EN 50082-1
Relative humidity	NON CONDENSING max 95 %	Immunity	EN 50082-2
Vibration allowed	0.5 G	ETHERNET MODULE (OPTION	1)
Overall dimensions	(DIN43700) 72 x 144 x 65 mm	Speed	10/100 base T magnetics on-board
Cut-out dimensions	92 x 92 mm	Connector	RJ45-8 (standard RJ Ethernet connector)
Protection class	(DIN VDE0470) IP40	SERIAL COMMUNICATION (O	PTION)
Material	Noryl UL V-0	Standard	RS485 Half-duple
Mounting position	Any	Connector	5.0 mm pitch extractible screw terminals
Weight	500 g MAX	Isolation	4KVpeak o 2.5KVRMS – transceiver stage self powered
Text window dimensions	34 x 9 mm	BaudRate	4800 - 9600 - 19200 - 38400
Output channels	2 SPDT contacts	Node-ID	1 ÷ 247
Max switching voltage	250 Vac	Parity	Even – Odd - None
Max switching current	5A @ 250V cosj=1	Stop bit	1 or 2
Max switching power	750 VA / 100 W		

### **FRONT PANEL**

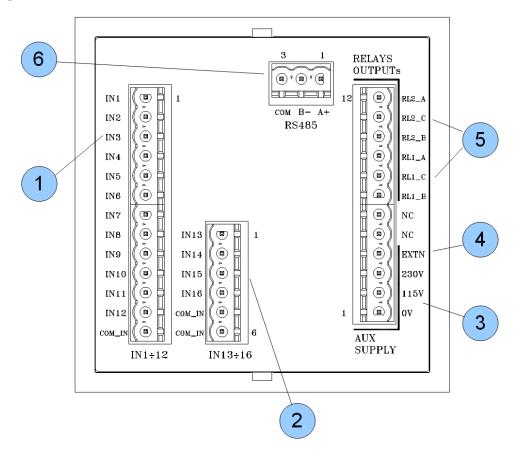


1	Transparent window for alarm description
2	Frontal loose frame
3	LED signals
4	Transparent window for alarm description
5	"Power ON" LED
6	Push buttons



1	Input Selection NO/NC IN1÷IN8
2	Input Selection NO/NC IN9÷IN12
3	Internal Buzzer OFF/ON
4	Alarm sequence selection
5	LED's light intensity adjust

### **BACK SIDE PANEL**



1	Alarm Inputs terminal (ac/dc)
2	Ext. Switches Inputs terminal (ac/dc )
3	Power supply terminal
4	Extension Line Connection
5	Output Relays
6	RS485 Serial Communication

### **WIRING DIAGRAM**

