FEATURES

- 8 Programmable Windows
- 6 Colour Selection
- RS485 based communication with MODBUS RTU protocol

137 x 67 x 63mm

SPECIFICATIONS

Display	Multicolour LED's - Fault Annunciation	
Colour's	Red, Green, Yellow, Blue, Magenta, Cyan	
LED's - Status Indication	Operation mode	Program mode
Green	Blinking	Continuous ON
Red	Alarm Output Status	NO / NC Selection
No of Keys	4	
Supply Voltage	90-270VAC	
Sensor Supply (SS)	12V, 50mA (for looping)	

Functional Specification

Digital Inputs	13
Operating Range	5~30VDC
Input Current	3mA@12V
Input Impedance	7.5k Ω
Debounce Time	0~255ms (Default = 10ms)
Protection against polarity Inversion	Yes

DIGITAL I/Os	Modbus Address	Description
F1	10000	Fault Inputs for Individual Window
F2	10001	
F3	10002	
F4	10003	
F5	10004	
F6	10005	
F7	10006	
F8	10007	
ACK	10008	Fault Acknowledgment
MUTE	10009	Mute Alarm Relay
RST	10010	Reset Faults
TEST	10011	Enable test mode (Input to be sensed for 3 sec.)
PRG Mode	10012	Short programming pins to enter in program mode
TRIP	0	Alarm Output
ALM	1	Trip Output

Digital Outputs

Number of Outputs	2
Outputs Type	NO Contact type - Relay
Output Current	7A @ 30VDC (Resistive), 7A @ 250VAC (Resistive)
Response Time	10ms
Life Expectancy	2,00,000 operation of Full load
Isolation	NA

Outputs Description

Alarm	Alarm Output
Trip	Trip Output

COMMUNICATION

Communication Port	RS485 Slave
Communication Protocol	MODBUS RTU
Baud Rate	Default = 115200 , 8N2
Slave ID	01

ENVIRONMENTAL CONDITIONS

Operating Temperature	0 to 55°C
Storage Temperature	-20 to 70°C
Humidity (non-condensing)	95%
Mounting	Panel Mount
Weight	220 gms

MODES OF OPERATIONS

1) OPERATIONAL MODE

Fault	Functions	Window	LED		Relay	
			Green	Red	Alarm Relay	Trip Relay
NO	NA	OFF	BLINK'S	OFF	OFF	OFF
YES	NA	BLINK'S	BLINK'S	ON (If Alarm Selected)	ON (If Alarm Selected)	ON
YES	ACK Key / ACK Input	ON	BLINK'S	ON (If Alarm Selected)	ON (If Alarm Selected)	ON
YES	Mute key / Mute Input	ON	BLINK'S	OFF	ON (If Alarm Selected)	OFF
YES	RST Key / RST Input	OFF	BLINK'S	OFF	OFF	OFF

2) PROGRAMING MODE

Short programming pins to enter in program mode. Press and Hold ACK key to exit program mode or turn OFF unit.

Key	Functions	LED		Selected Window
		Green	Red	
ACK	Window Selection	ON	NA	ON
	Exit Program mode if Pressed and Hold	NA	NA	NA
MUTE	Select Window Colour	ON	NA	ON
RST	NO / NC Selection for Input Sensing	ON	NO - ON NC - OFF	ON
TEST	Select's Alarm Output	ON	NA	BLINK's

3) TEST MODE

In Operation mode, Press and Hold TEST key / TEST Input sensed for 5 sec to enter TEST mode.
Press ACK key to exit TEST Mode

Key	Functions	LED		Window
		Green	Red	
ACK	Exit Test mode	BLINK's	BLINK's	All Windows blink's and changes colors at each blink
MUTE	NA	BLINK's	BLINK's	
RST	Hold Test mode	BLINK's	BLINK's	Hold Blinking

⚠ SAFETY PRECAUTIONS

This manual is meant for personnel involved in wiring installation, operation and routine maintenance of the equipment.

All safety related conditions, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure operator and instrument safety. Any misuse may impair the protection provided by the equipment.

⚠ **CAUTION :** Read complete instructions prior to installation and operation of the unit.

⚡ **CAUTION :** Risk of electric shock.

INSTALLATION INSTRUCTIONS

⚠ **CAUTION**

1. This equipment, being built-in-type, normally becomes a part of the main control panel and the terminals do not remain accessible to the user after installation.
2. Conductors must not come in contact with the internal circuitry of the equipment else it may lead to a safety hazard that may endanger life or cause electrical shock to the operator.
3. Circuit breaker or mains switch must be installed between the power source and supply terminals to facilitate power 'ON' or 'OFF' function.
4. The equipment shall not be installed in environmental conditions other than those specified in this manual.
5. Thermal dissipation of equipment is met through ventilation holes provided on housing of equipment. Obstruction of these ventilation holes may lead to a safety hazard.
6. The output terminals shall be loaded strictly as per the values / range specified by the manufacturer.

ELECTRICAL PRECAUTIONS DURING USE

Electrical noise generated by switching of inductive loads can create momentary disruption, erratic display, latch up, data loss or permanent damage to the instrument.
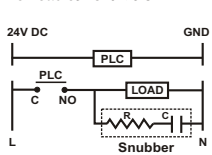
To reduce noise :

Use of Selec make Snubber across load is recommended.
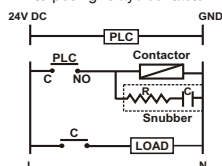Snubber Part no. : SNUBBER
NOTE : Below mentioned diagram is applicable only for 230V relay outputs.
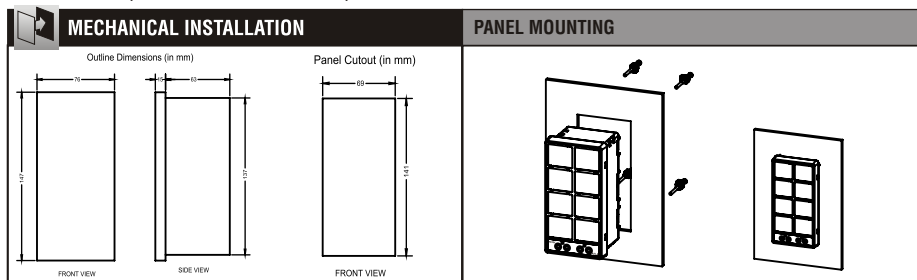
Typical Connections For Loads :

For load current < 0.5A

For bigger loads use interposing relay / contactor

NOTE : Use snubber as shown above to increase life of internal relay.
Use separate shielded wires for inputs.

🔧 MECHANICAL INSTALLATION | PANEL MOUNTING

Outline Dimensions (in mm)   Panel Cutout (in mm)

FRONT VIEW   SIDE VIEW   FRONT VIEW

⚠ **CAUTION**

The equipment in its installed state must not come in proximity to any heating sources, caustic vapors, oils, steam or other unwanted process by products.

MAINTENANCE

1. To avoid blockage of ventilation holes, clean the equipments regularly using a soft cloth.
2. Do not use Isopropyl alcohol or any other organic Solvents for cleaning.

WIRING INSTRUCTIONS

⚠ **CAUTION**

1. To prevent risk of electric shock, power suppply to the equipment must be kept OFF while wiring.
2. Terminals and electrically charged parts must not be touched when the power is ON.
3. Wiring shall be done strictly according to the terminal layout provided in the operating manual.
4. To eliminate electromagnetic interface use short wire with adequate rating and twists of equal size.
5. The power supply connection cable must have a cross section of 1sq.mm or greater and insulation capacity of At least 1.5KV.

WIRING DIAGRAM
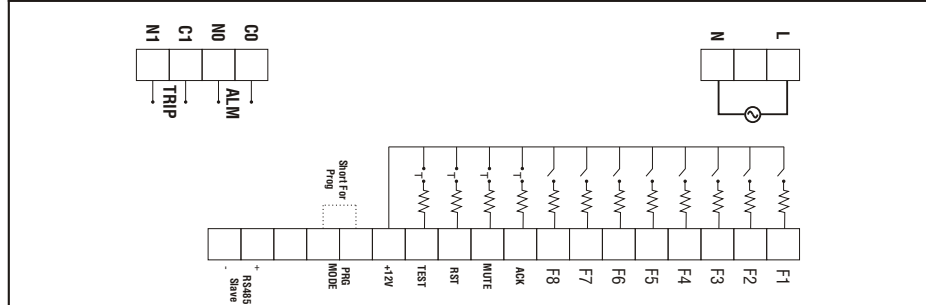
ORDER CODE INFORMATION

Product	Certification	
	CE	cULus LISTED
AN-8-0-0-230V	——	——

❓ SERVICE DETAILS

This device contains no user serviceable parts and requires equipments and specialized engineers for repair.
Please contact service center for repair on the following
Numbers : **Tel. No.:** +91-7498077172
Email : service@selec.com
NO WARRANTY ON UNIT DAMAGED DUE TO WRONG POWER SUPPLY.
(Specifications are subject to change, since development is a continuous process.)

Selec Controls Pvt. Ltd., India