

FEATURES

- > 7" LCD with resistive touch
- > Built in Buzzer
- > 10 password levels
- Modbus protocol
- ➤ Alarms
- > Recipe Management
- > Serial Printing
- Data Logging

SPECIFICATIONS				
LCD MODULE	Display Type		7" TFT LCD (256 color), Resistive Touch Screen	
	Resolution		800 x 480 pixels	
	Display Size(WxH)mm		154.08 x 85.92	
	Backlight		LED backlight	
	Brightness Adjustment		Auto/Manual via system menu	
Keys			System key x 1, Function keys x 7	
MEMORY	Internal	Bitmap	4 MB	
		Font	4 MB	
		Application	512 KB	
		Upload	2.5 MB	
		System Reserved	5 MB	
		Total	16 MB (System Memory)	
	External		Micro SD upto 2 GB (User Memory)	
N _O	Slave Port		RS232/485 (MODBUS RTU - Jumper Selectable)	
COMMUNICATION	Master Port		RS485 (MODBUS RTU)	
MMUN	Printer Port		RS232 (ESCPAUSE)	
CON	USB Slave		USB 2.0 (only for downloading)	
Ope	ration	Voltage	18 - 30VDC	
me TC)	Backup Battery		Replaceable 3V CR2032	
Real Time Clock (RTC)	Battery Life		10 year at 25°C	
Cloc	Accuracy		+/- 20 min per Year	
7	Туре		Electro Magnetic Buzzer	
Buzzer	Sound Output		85 dB at 10cm	
_	Oper	ation	Software Programmable	

Power Consumption	7W Max
Operating Temperature	0° to 55°C
Storage Temperature	-30° to 80°C
Humidity	95% RH
Certification	CE, UL (Pending)
Dimensions(WxHxD)mm	214 x 160 x 51.6
Panel Cutout(WxH)mm	196.9 x 142.9
Weight	730gms

A 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.

INSTALLATION INSTRUCTIONS

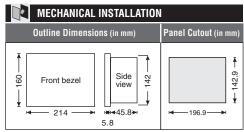
! CAUTION

- 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.
- 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.
- 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.
- Since this equipment forms part of the main control panel, its output terminals get connected to the host equipment.
 Such equipment shall also comply to EMI / EMC and safety requirements like CE standard procedure.
- 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.
- 7. The output terminals shall be loaded strictly as per the values / range specified by the manufacturer.

WIRING INSTRUCTIONS

! CAUTION

- 1. Wiring shall be done strictly according to the terminal layout provided in the operating manual.
- 2. To eliminate electromagnetic interference use short wire with adequate ratings and twists of equal size.
- The power supply connection cable must have a cross section of 1sq.mm or greater and insulation capacity of at least 1.5KV.



For installing the controller

- 1. Prepare the panel cutout with proper dimensions as shown above.
- 2. Remove the clamp from the SMI.
- Fix the unit into the cutout. Insert the clamp from both sides and tighten the screws.

CAUTION

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

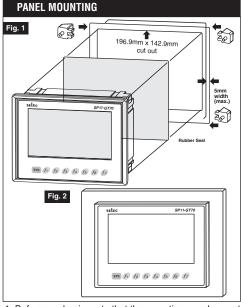
EMC Guidelines:

- Use proper input power cables with shortest connections and twisted type.
- Layout of connecting cables shall be away from any internal EMI source.

MAINTENANCE

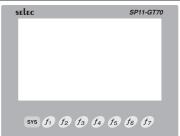
- 1. To avoid blockage of ventilation holes, clean the equipment regularly using a soft cloth.
- Do not use Isopropyl alcohol or any other organic Solvents for cleaning.

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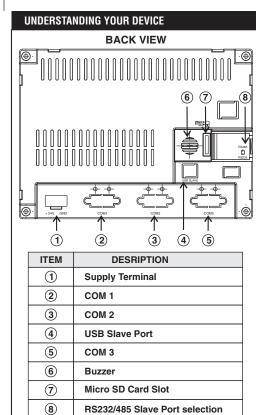


- 1. Before you begin, note that the mounting panel cannot be thicker than 5 mm (0.197").
- 2. Make a panel cut-out measuring 196.9mm x 142.9mm. (7.752" x 5.626")
- 3. Slide the controller into the cut-out, ensuring that the rubber seal is in place.
- 4. Push the 4 mounting brackets into their slots on the
- sides of the controller as shown in Fig. 1.
 5. Tighten the bracket screws against the panel. Hold the bracket securely against the unit while tightening the
- 6. When properly mounted, the controller is squarely situated in the panel cut out as shown in Fig. 2.

USER GUIDE



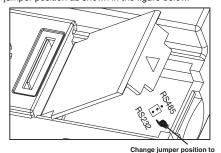
KEY	DESCRIPTION	
sys	Long press for 3 sec. to enter into internal menu for system info. Use for communications setting, backlight brightness control, touch calibration, to view memory usage and password setting.	
f_1	After firmware update use for enter into calibration mode in internal menu and Programmable key in Run mode. Also use for alarm acknowledgment.	
f_2 to f_7	Programmable keys in Run mode.	
f_7	At power ON press to enter into firmware update mode.	



SLAVE PORT SELECTION

- 1. Open the battery cover.
- 2. RS232/485 slave can be selected by changing the jumper position as shown in the figure below.

RS232/485 Slave Port selection



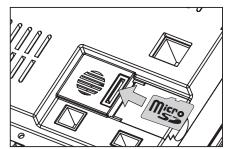
Change jumper position to	
switch between RS232 and RS485	

PORT PIN CONFIGURATION		
COM 1 MASTER PORT (Male Connector)	PIN	CONNECTION
	1	
	2	
PIN 1 PIN 5	3	
	4	
	5	
	6	
PIN 6 PIN 9	7	RS485 (+)
	8	RS485 (-)
	9	
COM 2	PIN	CONNECTION
SLAVE PORT (Female Connector)		
	1	
	2	RS232 (TXD)
PIN 5 PIN 1	3	RS232 (RXD)
	4	
	5	GND
	6	RS485 (+)
PIN 9 PIN 6	7	RS485 (-)
	8	
	9	
COM 3 PRINTER PORT (Male Connector)	PIN	CONNECTION
	1	
	2	RS232 (TXD)
PIN 1 PIN 5	3	RS232 (RXD)
	4	
	5	GND
	6	
PIN 6 PIN 9	7	
	8	
	9	

USB SLAVE	USB SLAVE				
Connection	USB Slave port can be connected with a PC				
Port Function	The port is only used to download user program to the HMI				

MEMORY INSTALLATION

- Installing micro SD Card
- > Push the micro SD Card into the slot until it
- > See Below figure for mounting direction.



- Removing micro SD Card
- > Push on the micro SD Card until it clicks and is released.

ORDERING INFORMATION

ORDER CODE

SP11-GT70

ACCESSORIES

Window-Based Software for SMI

AC-USB-RS232-01 (For downloading from USB Port)

ACH-001 (For downloading from Serial Port)

ACH-002 (For Master Port)

AC-IO EXP-02 (For Master to slave communication)

PS-CF-24V-1.1A

? SERVICE DETAILS

This device contains no user serviceable parts and requires special equipment and specialized engineers for repair. Please contact service center for repair on the following numbers

Toll free: 1800 227353 (BSNL/MTNL subscribers only)

Others: 91-22-40394200/40394202

NO WARRANTY ON UNIT DAMAGED DUE TO WRONG POWER SUPPLY.

(Specifications subject to change as development is a continuous process.)

Selec Controls Pvt. Ltd., India

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