

# PLC+HMI

## Flexible Automation Solution

Modular, Compact, Powerful & Expandable PLC  
PLC+HMI Solutions



Flexys Panel TX4



Flexys Rail



**SELPRO**  
Windows based  
ladder programming  
software



MM3030



MM3032



MM1010

# SMI

## Touchscreen HMI



SP3-GT35

**SMI**  
Windows based HMI  
programming software





MM3030



MM3032

**Features**

- Compact fixed configuration PLC with inbuilt HMI
- Special port for IO expansion (Only for MM3030-3-P1 & MM3030-4)

**Expandable PLCs with fast input & IO Expansion**

MODEL (BEZEL SIZE)	MM3030-1 (96 X 96)	MM3030-2 (96 X 96)	MM3030-4 (96 X 96)	MM3030-3-P1 (96 X 96)	MM3032-P1 (96 X 96)
USER INTERFACE	LCD (Backlight) 4x16+15 keys				LCD (Backlight) 2x16 +10 keys
DIGITAL INPUT	10 PNP - 11 to 30V DC			8 PNP - 5 to 16V DC	
FAST COUNTER INPUT	FC0- I0 & I1- Rate/Totalizer, FC1- I2 & I3- Rate/Totalizer, FC2- I4 & I5- Totalizer (0 to 7.5/20kHz)*				
ANALOG INPUT	2 channels (Voltage (0-10V), Current (0-20mA)) (Selectable via jumper)				
DIGITAL OUTPUT	8 (Transistorized)*			6 (Relay, 3A resistive@240V)	
FAST OUTPUTS	2 channels (Pulse output - 50kHz)				
COMMUNICATION INTERFACE	RS232 (Slave), IO Expansion port	RS485 (Slave), RS485 (Master) / IO Expansion port	RS485 (Slave), RS485 (Master)	RS232 (Slave), IO Expansion port	RS232 (Slave)
COMMUNICATION PROTOCOL	MODBUS RTU: RS232, Proprietary: IO630 expansion	MODBUS RTU: RS485 / IO610 expansion* Proprietary: IO630 expansion	MODBUS RTU: RS485 / IO610 expansion	MODBUS RTU: RS232, Proprietary: IO630 expansion	MODBUS RTU: RS232
REAL-TIME CLOCK (RTC)	Yes			No	
MOUNTING	Panel & DIN rail				
SUPPLY VOLTAGE	24V DC (-15% to 20%)			230V AC (-15% to 20%), 50Hz	

\* For MM3030-4 : FC0 : 12 kHz, FC1 & FC2 : 7.5 kHz

\* For MM3032-P1, MM3030-3-P1 : 7.5 kHz for all channels

**Low cost solution for small applications**



MM1012



MM1015

**Features**

- Compact PLC with LED based HMI

Model (Bezel Size)	MM1010-T/R (48x96)	MM1010-V (48x96)	MM1010-I (48x96)	MM1012 (48x96)	MM1015 (48x96)
User Interface	7 segment LED (3 + 4 + 4) digit + 5 keys				
Digital Input	8 PNP (11 ~ 30 V DC)			6 PNP (11 ~ 30 V DC)	10 PNP (11 ~ 30 V DC)
Analog Input	1 CH (TC / RTD)	1 CH (0 ~ 10V)	1 CH (0 ~ 20mA)	2 CH (TC / RTD / 0 ~ 10V / 0 ~ 20mA) (Selectable via jumper)	—
Digital Output	5 Relay			4 Relay	6 Relay
Analog Output	—			1 CH (0 ~ 10V / 0 ~ 20mA)	—
Communication Interface	RS485 (slave) via MODBUS RTU				
Mounting	Panel				
Supply Voltage	180 ~ 270V AC, 50Hz / 18 ~ 30V DC				



IO610-4RO

**Features**

- Up to 31 modules per controller.
- DIN rail mounting

**IO Expansion Modules**

Model	IO610-8DI IO630-8DI	IO610-4RO IO630-4RO	IO610-4TO IO630-4TO	IO610-2AI-TCR IO630-2AI-TCR	IO610-2AI-VI IO630-2AI-VI	IO610-2AO IO630-2AO
No of Input/Output	8 Digital input	4 Relay output	4 Transistor output	2 Analog input (TC/RTD)	2 Analog input (V/I)	2 Analog output (V/I)
Power Supply	24VDC, 100mA					
Protocol	IO630 Expansion - Proprietary / IO610 Expansion - MODBUS RTU					

**Accessories**

<p>AC-USB-RS232-01</p>	<p>AC-USB-RS485-02</p>	<p>AC-USB-RS485-03</p>	<p>ACH-001</p>	<p>ACH-002</p>	<p>AC-IOEXP-01</p>
			<p>ACH-003</p>	<p>ACH-004</p>	



DESCRIPTION	FLEXYS PANEL TX4	FLEXYS RAIL
<b>Functions</b>	<ul style="list-style-type: none"> <li>• Flexible card selection</li> <li>• Compact PLC with built-in HMI</li> <li>• 4 line x 16 characters LCD display</li> <li>• Windows based user friendly software for ladder programming &amp; HMI configuration</li> <li>• RTC with Time Switch function (Optional)</li> <li>• RS485 based Communication with MODBUS Protocol</li> <li>• Expandable via IO Expansion</li> </ul>	<ul style="list-style-type: none"> <li>• Flexible card selection</li> <li>• Windows based user friendly software for ladder programming</li> <li>• RTC with Time Switch function (Optional)</li> <li>• RS485 based Communication with MODBUS Protocol</li> <li>• Expandable via IO Expansion</li> </ul>
<b>User Interface</b>	LCD (Backlight) 4 line x 16 Character + 18 keys	12 LEDs to indicate card status for selectable slot, One 7 segment display to indicate slot no, Card failure indicated by blinking display
<b>Communication Interface</b>	1. RS485 Slave (For Downloading Ladder Program)	2. RS485 Master for IO610 Expansion    3. Proprietary for IO630 Expansion
<b>Communication Protocol</b>	Modbus RTU & Proprietary Protocol for IO630 Expansion	
<b>Real-time clock (RTC)</b>	Yes (With 10 years battery life from date of manufacture)	
<b>Mounting</b>	Panel Mount	Din Rail Mount
<b>Supply Voltage</b>	1: 230V AC (90-270V) 2: 24V DC (18-26V)	24V DC (18-26V)
<b>Sensor Supply (SS)</b>	10V (100mA available only in 230V power supply card )	
<b>Dimensions</b>	99 x 95.6 x 90.5mm	140 x 93.4 x 72mm
<b>Fast Counter Input</b>	2 Channel (Unidirectional, Bidirectional, Quadrature, Dual Unidirectional) : 5 kHz (On power supply card only)	
<b>Order Code</b>	FL-TX4-PS-230V (230V AC Power supply card) FL-TX4-PS-24V (24V DC Power supply card) FL-TX4-LG-1-1-1	FL-RL-PS-24V FL-RL-LG-1-1-1 FL-RL-BS-6



Flexys Panel TX4 (Back view)



I/O Cards

I/O Cards (Maximum slots upto 4)	Description	Order Code
<b>Digital Input</b>	10 PNP (7 to 30V DC)	FL-SC-DI10
	4 Channel (Thermocouple / 0-60 mV)	FL-SC-AI04-TC
<b>Analog Input</b>	3 Channel (RTD Type)	FL-SC-AI03-RTD
	5 Channel (0-10V)	FL-SC-AI05-V
	5 Channel (0-20 mA)	FL-SC-AI05-I
<b>Digital Output</b>	8 Relay (5A Resistive @230V AC / 30V DC)	FL-SC-RO08
	8 Transistorised (PNP type, 24V@100mA)	FL-SC-TO08
<b>Analog Output</b>	4 Channel ( 0-10V )	FL-SC-AO04-V
	4 Channel ( 0-20mA)	FL-SC-AO04-I
<b>Load Cell Input</b>	4 Channel ( 24 bit resolution)	FL-SC-LC04

**Accessories**

AC-USB-RS485-02 	AC-USB-RS485-03 
ACH-004 	AC-IOEXP-02 



## Touchscreen HMI

DESCRIPTION	SP3-GT35																
<b>Functions</b>	<ul style="list-style-type: none"> <li>• 3.5" LCD with Touch Screen</li> <li>• 10 password levels</li> <li>• Alarms</li> <li>• Recipe Management</li> <li>• Serial Printing</li> <li>• Data Logging</li> </ul>																
<b>Display Size (inches)</b>	3.5" (diagonal)																
<b>Touch Screen</b>	Yes (Resistive)																
<b>Display Type</b>	8 bit color																
<b>Resolution in pixels h-v (inches)</b>	320 x 240																
<b>Backlight</b>	LED backlight																
<b>Backlight Adjustment</b>	Yes (Via Software)																
<b>User Memory</b>	16 MB																
<b>Backup Memory</b>	2 GB (micro SD)																
<b>Communication Ports</b>	<table border="1"> <thead> <tr> <th>Ports</th> <th>Interface</th> <th>Protocol</th> <th>Configuration</th> </tr> </thead> <tbody> <tr> <td>COM1</td> <td>RS232</td> <td>Modbus RTU</td> <td>Slave</td> </tr> <tr> <td>COM2</td> <td>RS485</td> <td>Modbus RTU</td> <td>Master</td> </tr> <tr> <td>COM3</td> <td>RS232</td> <td>ESC/P</td> <td>Serial printer (slave)</td> </tr> </tbody> </table>	Ports	Interface	Protocol	Configuration	COM1	RS232	Modbus RTU	Slave	COM2	RS485	Modbus RTU	Master	COM3	RS232	ESC/P	Serial printer (slave)
Ports	Interface	Protocol	Configuration														
COM1	RS232	Modbus RTU	Slave														
COM2	RS485	Modbus RTU	Master														
COM3	RS232	ESC/P	Serial printer (slave)														
<b>Keys</b>	5 function keys +1 system key																
<b>Operation Voltage</b>	18 - 30V DC																
<b>Real Time Clock (RTC)</b>	Built-In																
<b>Backup Battery</b>	Replaceable 3V CR2032																
<b>Operation Temperature</b>	0 to 55 Deg C																
<b>Storage Temperature</b>	-30 to 80 Deg C																
<b>Humidity (Non-condensing)</b>	95% RH																
<b>Dimensions (W X H X D) mm</b>	96 x 96 x 53																
<b>Cutout (W X H) mm</b>	92 x 92																
<b>Software</b>	Windows based programming software																
<b>Order Code</b>	SP3-GT35																

**Regd. Address:**

EL-27/1, Electronic Zone, TTC Industrial Area,  
MIDC, Mahape, Navi Mumbai 400710, INDIA  
Tel.: +91-22-4141 8419/8430  
Fax: +91-22-2847 1733  
Tollfree: 1800 227353 (BSNL/MTNL only)  
Email: sales@selec.com

**Selec Controls USA., Inc.:**

203 main Street # 205 Flemington,  
NJ 08822, U.S.A.  
Phone: +908-627-2149,  
Fax: +908-968-0940,  
Email: usa@selec.com,  
Web: www.seleccusa.com

**Selec GmbH :**

Mollwitzstrasse 2, D-14059, Berlin,  
Tel: +49 3030111870,  
Fax.: +49 303011187-77,  
Email: europe@selec.com  
Web: www.selec-europe.com

Authorised Agent: