FlexiPanels® - FP3035

Say goodbye to text displays.......
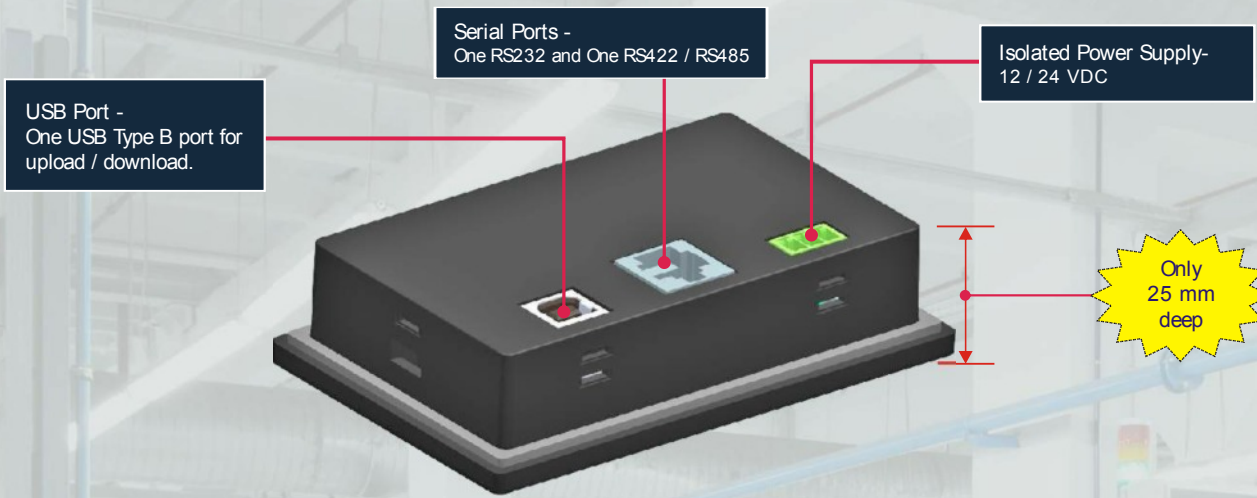
RENU
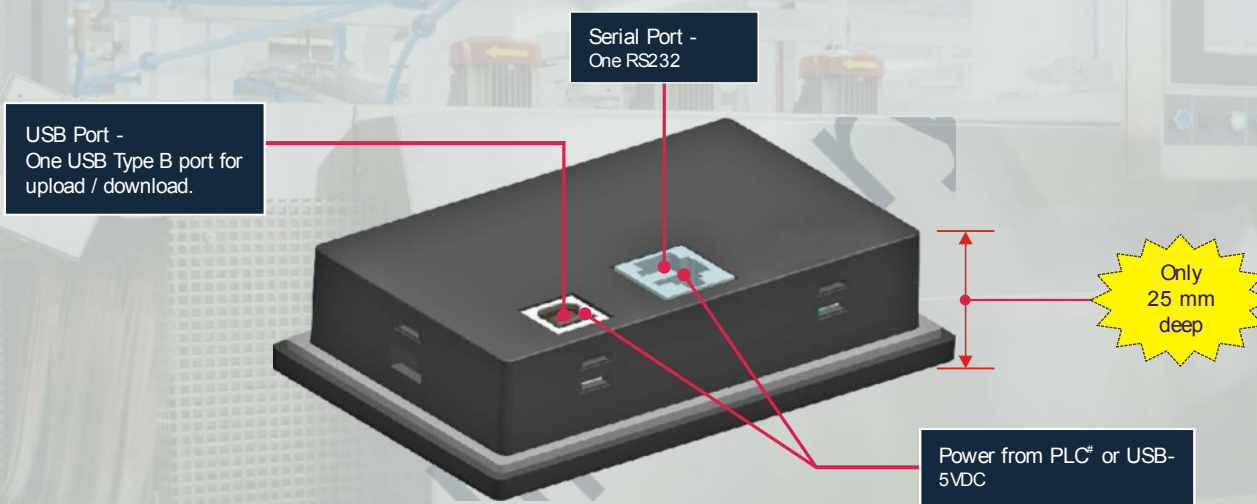ELECTRONICS PVT. LTD.
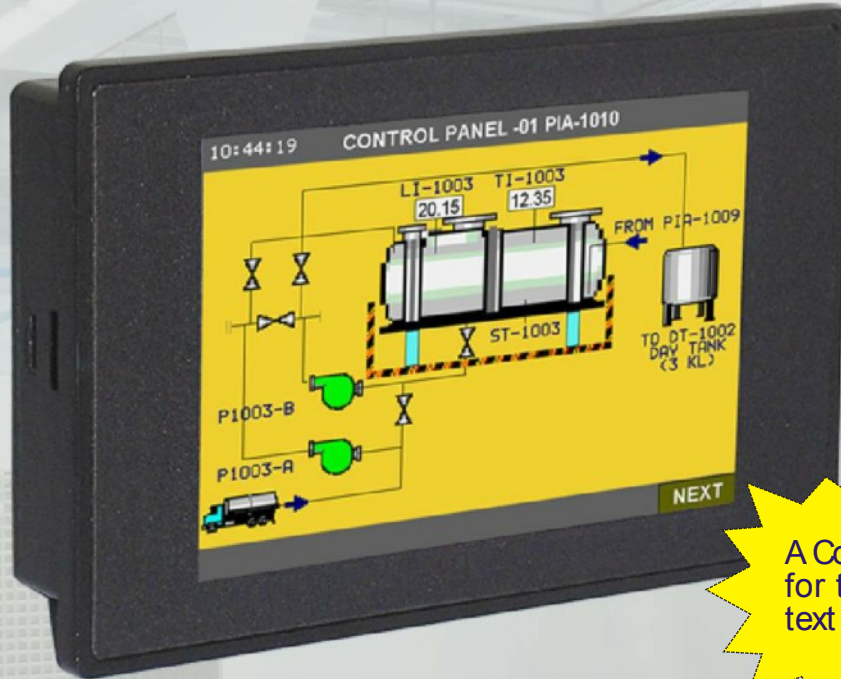
A Color TFT HMI for the price of a text HMI

Features:

☑ 3.5" Color HVGA TFT display (Resolution 480 x 320 pixels)

☑ Touch screen

☑ RTC

☑ Two serial ports (One RS232 port, One RS485 port*)

☑ USB Type B port for programming

☑ 24 VDC or PLC powered

☑ 32-bit RISC processor

☑ Front Panel Mounting

☑ CE, UL Class 1 Div 2, IP66, RoHS

*Not supported in FP3035T-5

Model Description : FP3035T-24

Serial Ports -
One RS232 and One RS422 / RS485

Isolated Power Supply-
12 / 24 VDC

USB Port -
One USB Type B port for
upload / download.

Only
25 mm
deep

Model Description : FP3035T-5

Serial Port -
One RS232

USB Port -
One USB Type B port for
upload / download.

Only
25 mm
deep

Power from PLC# or USB-
5VDC

Model Comparison

| Product	Model	Power	Display	TS	Memory	Screen Memory	Serial Ports **	USB	RTC	Power Consumption	Weight (Approx.)	Bezel Dimensions (mm)	Panel Cutout (mm)
FP3035	FP3035T-24	12 / 24VDC	480x320 HVGA 3.5" Color TFT	Yes	Up-to 16.5 MB	Up-to 16 MB	2**	Device	Yes	1W	300 gms.	107 W x 69 H x 25 D	97 W x 59 H
	FP3035T-5	5VDC from PLC# or USB port of PC	480x320 HVGA 3.5" Color TFT	Yes	Up-to 16.5 MB	Up-to 16 MB	1	Device	Yes	1W	300 gms.	107 W x 69 H x 25 D	97 W x 59 H

** One "RJ45" type port that supports RS232 and RS485 levels on different pins. "Y" type cable can be supplied to use the RS232 and RS485 ports simultaneously.

EMI/EMC, Environmental and Mechanical Specifications

EMI/EMC	
Immunity to ESD	as per IEC61000-4-2
Immunity to Fast Transients	as per IEC61000-4-4
Immunity to Radiated electromagnetic field	as per IEC61000-4-3
Immunity to Conducted disturbances	as per IEC61000-4-6
Surge	as per IEC61000-4-5
Emission	as per EN55011

Environmental and Mechanical	
Temperature	0 to 50° C (operating), -20 to 85° C (storage)
Humidity	10 to 85 % non condensing
Vibration immunity	IEC60068-2-6
Shock immunity	IEC60068-2-27
Dimensions (mm)	107mm(W) X 69 mm(H) X 25mm(D)

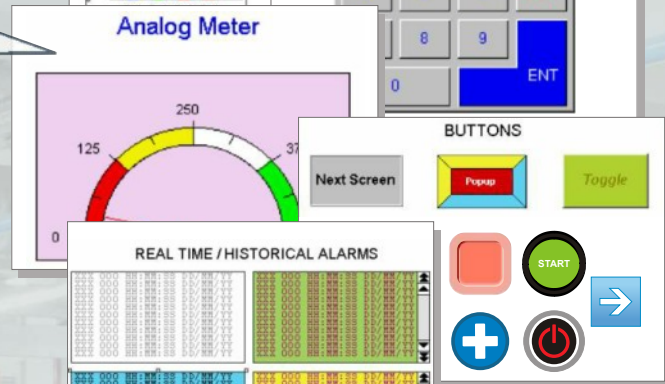# HMI Software Features

LINE / RECTANGLE / ROUNDED RECTANGLE / SQUARE / ELLIPSE /
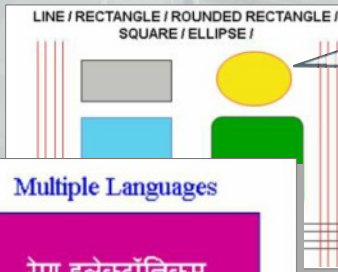
Graphical Objects
FlexiSoft® supports various graphical objects like Rectangle / Rounded Rectangle / Ellipse / Square and Line.

Multiple Languages

रेणू इलेक्ट्रॉनिक्स

मराठी

BAR GRAPH

Multiple Bargraphs
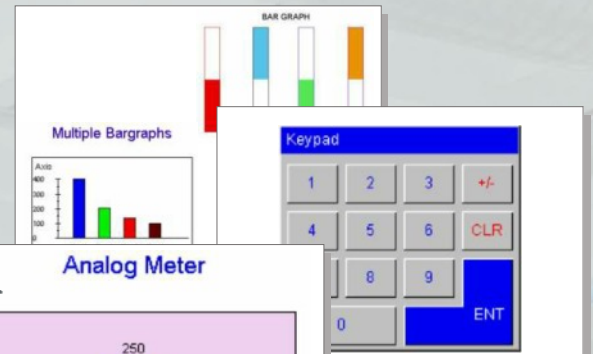
Advanced Objects
FlexiSoft® supports most popular advanced objects like Bargraphs, Multiple Bargraphs, Analog Meter Real Time / Historical Alarms, Buttons.

Keypad

1	2	3	+/-
4	5	6	CLR
7	8	9	
0			ENT

Analog Meter

125   250   37
0

BUTTONS

Next Screen   Popup   Toggle

START

REAL TIME / HISTORICAL ALARMS

Windows Fonts for Data Entry and Data Display

Arial, 12pt
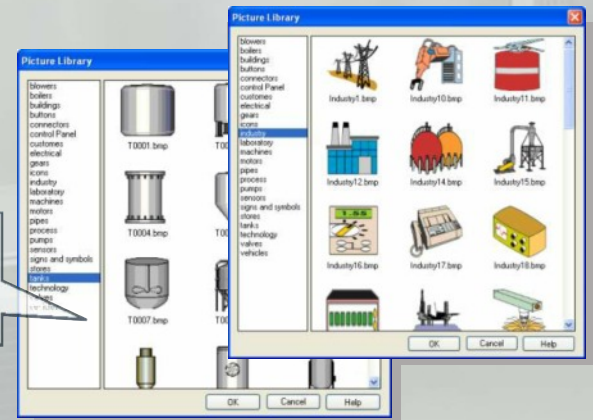
Arial, 14pt

rial, 18pt

Windows Fonts for Data Entry and Data Display

Times New Roman, 22pt

30pt   42pt

50pt 62

Tahoma

72pt

90pt

Windows Font for Display Data and Data Entry
FlexiSoft® supports True type Windows font for Data Entry and Data Display objects. Supported fonts are 'Arial', 'Times New Roman' and 'Tahoma'.

Picture Library

Picture Library
FlexiSoft® provides rich picture library. It includes many popular image categories widely used for industrial application development.

Real Time Clock

Date: 30/08/13

Time: 16:44:46

Day of Week: XXX : 30/08/13

Real Time Clock
Real Time Clock object helps user to display date, time and day of week.

Supported Objects

Drawing Tools	Advance Objects
Line, Rectangle, Ellipse	Buttons
Rounded Rectangle	Lamps
Text, Multilingual text	Bar graph
Picture	Multiple Bargraph
Data Entry / Data Display	Analog Meter
Numeric data	Alarm
Bit data	Numeric Keypad
Clock objects	ASCII Keypad
Time	Custom Keypad
Date	

Supported Tasks

Supported tasks
Button specific tasks
Global tasks
Screen specific tasks
Data exchange tasks

Protocols Supported Include

Driver	FP3035
ABB	✓
Allen Bradley DF1	✓
Aromat FP Series	✓
Baldor	✓
Danfoss Drive	✓
Delta	✓
Fatek	✓
GE Fanuc	✓
GE SNP-X	✓

Driver	FP3035
Idec	✓
LG Master K series	✓
LG Master-K 300S	✓
Mitsubishi FX	✓
Mitsubishi Q series (Serial)	✓
Modbus master	✓
Modbus slave	✓
Omron Host Link	✓
Omron Yaskawa Drive	✓

Driver	FP3035
Serial Monitor	✓
Siemens-S7-200	✓
Siemens-S7-300	✓
Toshiba Inverters	✓
Toshiba T1	✓
Toshiba T2 Link port	✓
Twido	✓
Unitelway	✓
Universal Serial (ASCII)	✓

Application Example

Remote Display for FL005 PLC

FP3035T-5

RS232 and Power

USB

FL005 PLC

HMI for Control Application

FP3035T-24

USB

12 / 24VDC Power Supply

RS232

Modbus RS485 Network

GSM Network

PLC   PLC   Drive   GSM Gateway
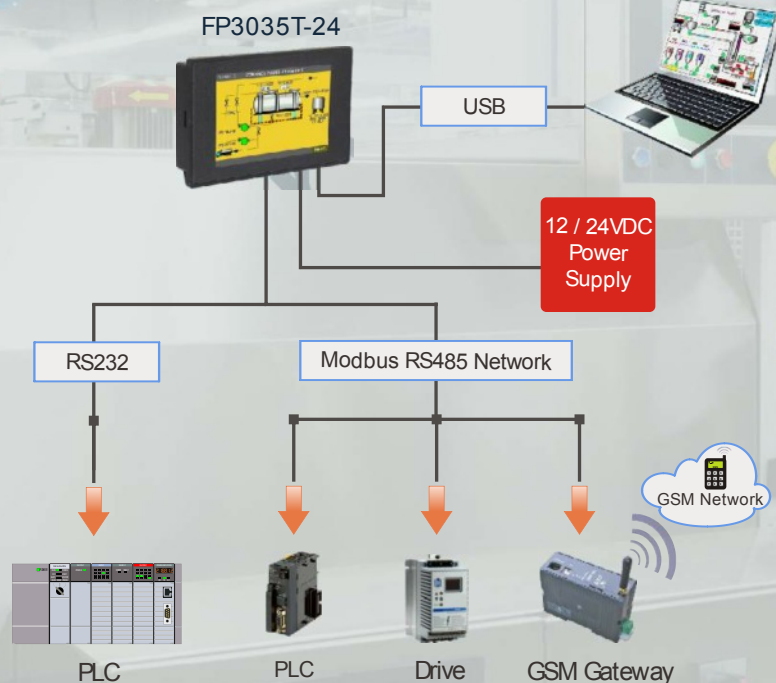
Accessories

FP to FL Cables	FP3035-24	FP3035-5
USB Cable	PC-USBAB-00	PC-USBAB-00
232 Cable (COM1)	RC-P-009H-00	RC-I-187A-00
485 4 Wire (COM1)	RC-P-009I-00	NA
485 2 Wire (COM2)	RC-P-009J-00	NA

Supported Printers

FlexiPanels® support following
Dot matrix serial printers:
- EPSON
- SAMSUNG
- TVS

Dimensions

107
97
59
69
25

All dimensions are in mm.
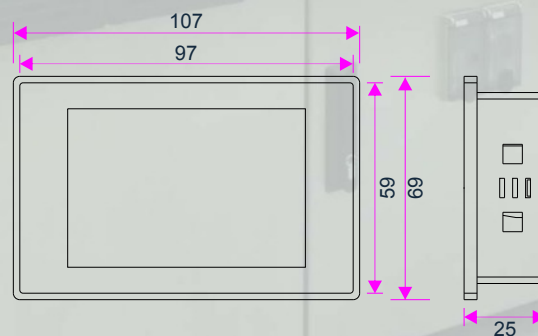
Please contact factory for more information. We welcome an opportunity to develop new, custom drivers and customized units.

RENU
ELECTRONICS PVT. LTD.