FlexiPanels® - FP3

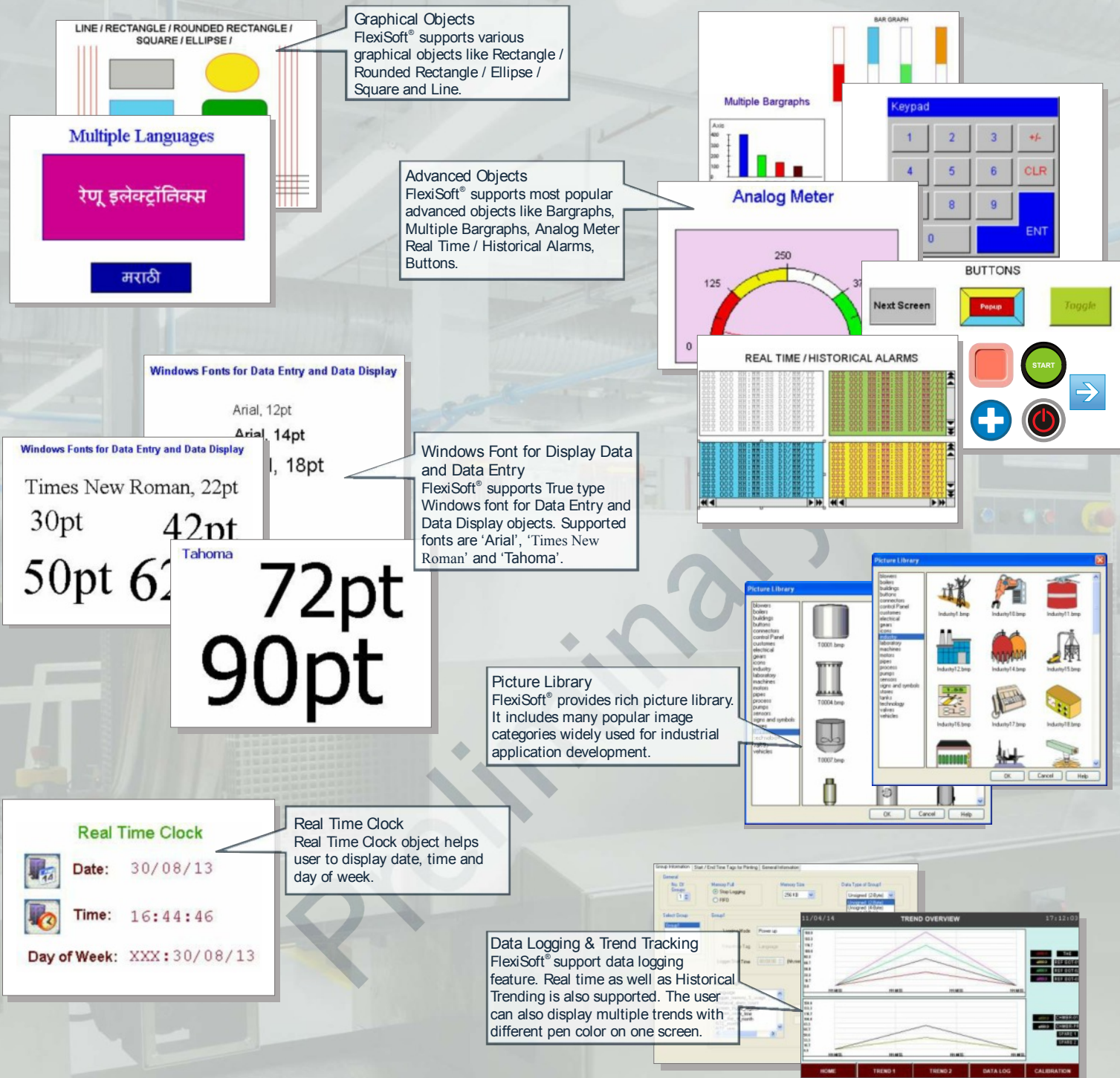*High performance low cost HMIs*

FP3102

FP3070

FP3043

FP3035

- Great value in a high quality color display!
- 3.5" to 10.2" TFT color display with touch screen
- Slim design - minimal space behind the panel is required
- Two serial communication interfaces (one RS 232 and one RS 232/485)
- Optional Ethernet port
- One USB programming port
- One USB Host port for program downloads and data log uploads
- Supports horizontal and vertical display orientation
- Front panel mounting with IP 66 rating
- Multi language support with true type Windows fonts

Model Comparison

Models	FP3035T-24	FP3043T	FP3043TN	FP3070T	FP3070TN	FP3102T	FP3102TN
Display	3.5" HVGA Color TFT	4.3" WQVGA Color TFT	4.3" WQVGA Color TFT	7" WVGA Color TFT	7" WVGA Color TFT	10.2" WVGA Color TFT	10.2" WVGA Color TFT
Resolution	480x320 Pixels	480x272 Pixels	480x272 Pixels	800x480 Pixels	800x480 Pixels	800x480 Pixels	800x480 Pixels
Backlight	LED Backlight	LED Backlight	LED Backlight	LED Backlight	LED Backlight	LED Backlight	LED Backlight
CPU	32-bit RISC processor	32-bit RISC processor	32-bit RISC processor	32-bit RISC processor	32-bit RISC processor	32-bit RISC processor	32-bit RISC processor
Memory	Up to 16.5MB	Up to 30MB	Up to 30MB	Up to 30MB	Up to 30MB	Up to 30MB	Up to 30MB
Screen Memory	Up to 16MB	Up to 10MB	Up to 10MB	Up to 10MB	Up to 10MB	Up to 10MB	Up to 10MB
Historical Alarms	20 Alarms	2700 Alarms	2700 Alarms	2700 Alarms	2700 Alarms	2700 Alarms	2700 Alarms
Retentive Memory	1400 Words (EEPROM)	1400 Words (EEPROM)	1400 Words (EEPROM)	1400 Words (EEPROM)	1400 Words (EEPROM)	1400 Words (EEPROM)	1400 Words (EEPROM)
Data Log (Internal)	NA	Up to 20 MB	Up to 20 MB	Up to 20 MB	Up to 20 MB	Up to 20 MB	Up to 20 MB
Serial Communication							
Number of ports	2#	2#	2#	2	2	2	2
Com1	RS232	RS232	RS232	RS232 / RS485	RS232 / RS485	RS232 / RS485	RS232 / RS485
Com2	RS485	RS485	RS485	RS232 / RS485	RS232 / RS485	RS232 / RS485	RS232 / RS485
USB Interfaces							
USB Device	1 USB Device Type B port for programming	1 USB Device Type B port for programming	1 USB Device Type B port for programming	1 USB Device Type B port for programming	1 USB Device Type B port for programming	1 USB Device Type B port for programming	1 USB Device Type B port for programming
USB Host	NA	1 USB Host port	1 USB Host port	1 USB Host port	1 USB Host port	1 USB Host port	1 USB Host port
Ethernet Interface	NA	NA	One 10/100 Mbps	NA	One 10/100 Mbps	NA	One 10/100 Mbps
RTC	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power Supply	12/24VDC (± 10%)	12/24VDC (± 10%)	12/24VDC (± 10%)	12/24VDC (± 10%)	12/24VDC (± 10%)	12/24VDC (± 10%)	12/24VDC (± 10%)
Operating Temperature	0 to 60° C	0 to 60° C	0 to 60° C	0 to 60° C	0 to 60° C	0 to 60° C	0 to 60° C
Storage Temperature	-20 to 85° C	-20 to 85° C	-20 to 85° C	-20 to 85° C	-20 to 85° C	-20 to 85° C	-20 to 85° C
Humidity	10 to 85% non condensing	10 to 85% non condensing	10 to 85% non condensing	10 to 85% non condensing	10 to 85% non condensing	10 to 85% non condensing	10 to 85% non condensing
Approvals	CE, UL Class I Div 2	CE, UL Class I Div 2	CE, UL Class I Div 2	CE, UL Class I Div 2	CE, UL Class I Div 2	CE, UL Class I Div 2	CE, UL Class I Div 2
Mounting	Front Panel Mounting, IP66 rated	Front Panel Mounting, IP66 rated	Front Panel Mounting, IP66 rated	Front Panel Mounting, IP66 rated	Front Panel Mounting, IP66 rated	Front Panel Mounting, IP66 rated	Front Panel Mounting, IP66 rated
Dimensions (mm)	107W x 69H x 25D (Drawing A)	TBC	TBC	186W x138H x 31D (Drawing B)	186W x138H x 31D (Drawing B)	TBC	TBC

FP3035 and FP3043 support One DB9 port that supports RS232 and RS485 levels on different pins. "Y" type cable can be used for separate RS232 and RS485 levels simultaneously

HMI Software Features

Graphical Objects
FlexiSoft® supports various graphical objects like Rectangle / Rounded Rectangle / Ellipse / Square and Line.

LINE / RECTANGLE / ROUNDED RECTANGLE / SQUARE / ELLIPSE /

Multiple Languages
रेणू इलेक्ट्रॉनिक्स
मराठी

BAR GRAPH

Multiple Bargraphs

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

Analog Meter

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

BUTTONS
Next Screen | Popup | Toggle

START

REAL TIME / HISTORICAL ALARMS

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'.

Windows Fonts for Data Entry and Data Display
Arial, 12pt
Arial, 14pt
Arial, 18pt

Windows Fonts for Data Entry and Data Display
Times New Roman, 22pt
30pt 42pt
50pt 62pt
Tahoma
72pt
90pt

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

Picture Library

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

Real Time Clock
Date: 30/08/13
Time: 16:44:46
Day of Week: XXX:30/08/13

Data Logging & Trend Tracking
FlexiSoft® support data logging feature. Real time as well as Historical Trending is also supported. The user can also display multiple trends with different pen color on one screen.

TREND OVERVIEW

HOME | TREND 1 | TREND 2 | DATA LOG | CALIBRATION

Supported Objects

Drawing Tools	Advance Objects
Line, Rectangle, Ellipse	Buttons
Rounded Rectangle	Lamps
Text, Multilingual text	Bargraph
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	FP3 Series	Driver	FP3 Series	Driver	FP3 Series
ABB	✓	Idec	✓	Serial Monitor	✓
Allen Bradley DF1	✓	LG Master K series	✓	Siemens-S7-200	✓
Aromat FP Series	✓	LG Master-K 300S	✓	Siemens-S7-300	✓
Baldor	✓	Mitsubishi FX	✓	Toshiba Inverters	✓
Danfoss Drive	✓	Mitsubishi Q series (Serial)	✓	Toshiba T1	✓
Delta	✓	Modbus master	✓	Toshiba T2 Link port	✓
Fatek	✓	Modbus slave	✓	Twido	✓
GE Fanuc	✓	Omron Host Link	✓	Unitelway	✓
GE SNP-X	✓	Omron Yaskawa Drive	✓	Universal Serial (ASCII)	✓

Application Example

HMI for Control Application

FP3043TN

USB

24VDC Power Supply

RS232

Modbus RS485 Network

GSM Network

PLC   PLC   Drive   GSM Gateway
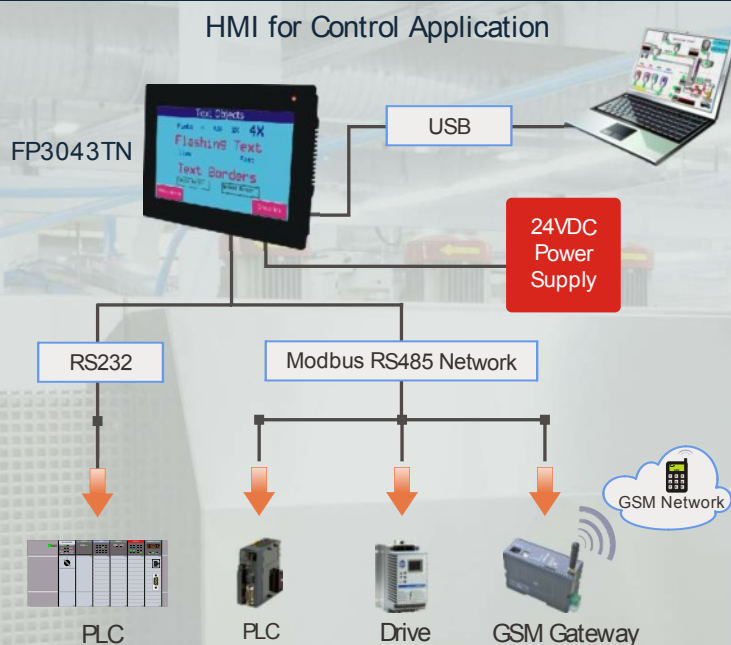
Dimensions

Drawing A

107
97
59
69
25

Drawing B

186
31
138
5
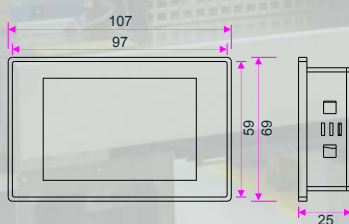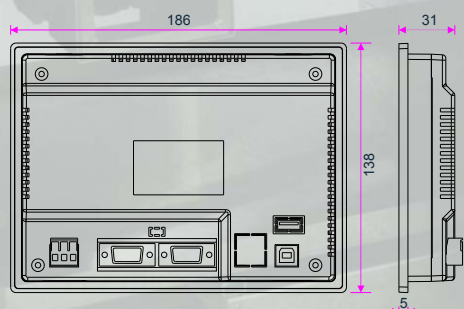
All dimensions are in mm.

Ordering Information

Models	Description
FP3035T-24	3.5" TFT, 12/24VDC, USB Device
FP3043T	4.3" TFT, 12/24VDC, USB Device
FP3043TN	4.3" TFT, 12/24VDC, USB Device, Ethernet
FP3070T	7" TFT, 12/24VDC, USB Device
FP3070TN	7" TFT, 12/24VDC, USB Device, Ethernet
FP3102T	10.2" TFT, 12/24VDC, USB Device
FP3102TN	10.2" TFT, 12/24VDC, USB Device, Ethernet

RENU
ELECTRONICS PVT. LTD.

An ISO 9001:2008 and ISO 14001:2004 certified company

www.comoso.com