

# FLEXIPANELS® - FP3 SERIES

- ✓ NEW HIGH PERFORMANCE HMI SERIES FROM **RENU ELECTRONICS**
- ✓ BRAND NEW ATTRACTIVE SLIM HOUSING
- ✓ SUITABLE FOR VARIETY OF APPLICATIONS
- ✓ HUGE MEMORY FOR SCREENS AND GRAPHICS
- ✓ GIVES REAL VALUE FOR YOUR MONEY

FP3102



FP3070



FP3043

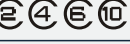
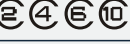






## Salient Features

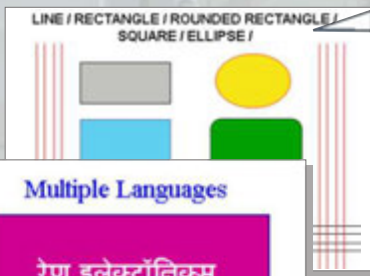
- ✓ 4.3" to 10.2" TFT Color display with touch screen
- ✓ Two serial communication ports
- ✓ One USB programming port
- ✓ One USB Host port
- ✓ One Ethernet port
- ✓ One SD card slot
- ✓ Supports Horizontal and Vertical display orientation
- ✓ High quality color display
- ✓ Front Panel mounting with IP66 rating
- ✓ Multilanguage support with true type Windows fonts
- ✓ CE, UL Class I Div 2, RoHS



# Model Comparison

Models	FP3043T	FP3043TN	FP3070T	FP3070TN	FP3102T	FP3102TN	
Display	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	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	
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	
Memory	Up to 128MB	Up to 128MB	Up to 128MB	Up to 128MB	Up to 128MB	Up to 128MB	
Screen Memory	Up to 45MB	Up to 45MB	Up to 45MB	Up to 45MB	Up to 45MB	Up to 45MB	
Historical Alarms	2700 Alarms	2700 Alarms	2700 Alarms	2700 Alarms	2700 Alarms	2700 Alarms	
Retentive Memory	22000 Words (EEPROM)	22000 Words (EEPROM)	22000 Words (EEPROM)	22000 Words (EEPROM)	22000 Words (EEPROM)	22000 Words (EEPROM)	
Data Log	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
	Com1	RS232	RS232	RS232 / RS485	RS232 / RS485	RS232 / RS485	RS232 / RS485
	Com2	RS485	RS485	RS232 / RS485	RS232 / RS485	RS232 / RS485	RS232 / RS485
USB Interfaces	USB Device	1 USB Device Type B micro port for programming	1 USB Device Type B micro port for programming	1 USB Device Type B micro port for programming	1 USB Device Type B micro port for programming	1 USB Device Type B micro port for programming	1 USB Device Type B micro port for programming
	USB Host	1 USB Host port	1 USB Host port	1 USB Host port	1 USB Host port	1 USB Host port	1 USB Host port
SD Card Slot	Type	NA	microSD HC	NA	microSD HC	NA	microSD HC
	Capacity	NA	High Capacity (4GB to 32GB)	NA	High Capacity (4GB to 32GB)	NA	High Capacity (4GB to 32GB)
	Speed Class	NA		NA		NA	
	UHS Speed Class	NA		NA		NA	
Ethernet Interface	NA	One 10/100 Mbps	NA	One 10/100 Mbps	NA	One 10/100 Mbps	
RTC	Yes	Yes	Yes	Yes	Yes	Yes	
Power Supply	24VDC (±15%)	24VDC (±15%)	24VDC (±15%)	24VDC (±15%)	24VDC (±15%)	24VDC (±15%)	
Power Rating	4W	4W	9W	9W	7W	7W	
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**	
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	
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	
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	
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	
Weight (Approximate)	200 gms.	200 gms.	400 gms.	400 gms.	900 gms.	900 gms.	
Bezel Dimensions (mm)	120W x 89H x 31.5D (Drawing A)	120W x 89H x 31.5D (Drawing B)	186W x 138H x 31D (Drawing C)	186W x 138H x 31D (Drawing D)	268W x 190H x 33D (Drawing E)	268W x 190H x 33D (Drawing F)	
Panel Cutout (mm)	111W x 80H	111W x 80H	175W x 127H	175W x 127H	256W x 178H	256W x 178H	

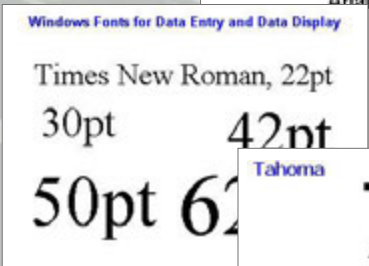
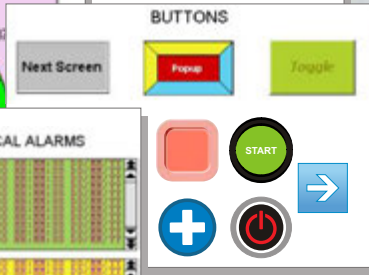
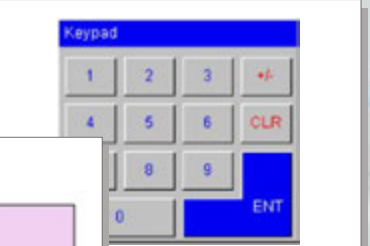
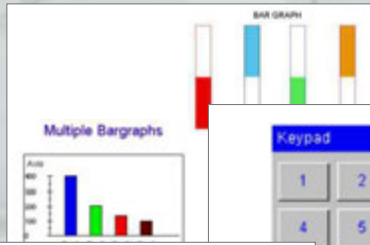
# HMI Software Features



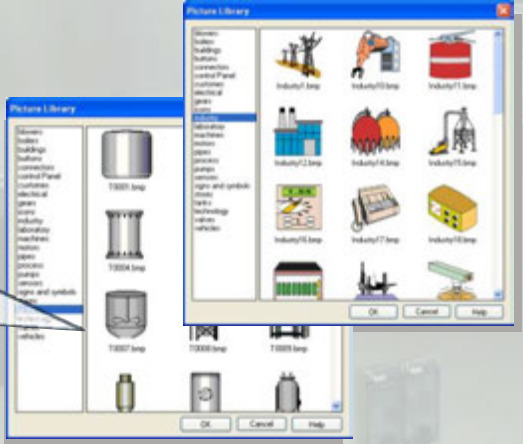
**Graphical Objects**  
FlexiSoft® supports various graphical objects like Rectangle / Rounded Rectangle / Ellipse / Square and Line.



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



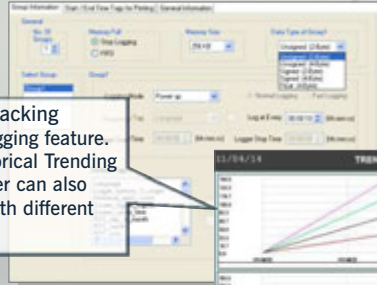
**Windows Font for Display Data and Data Entry**  
FlexiSoft® supports True type Windows font for Data Entry and Data Display objects. Supported fonts are 'Arial', 'Times New Roman' and 'Tahoma'.



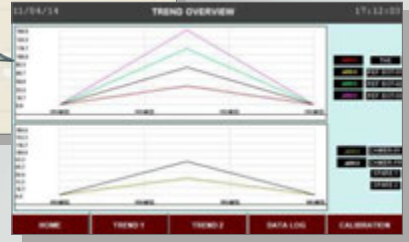
**Picture Library**  
FlexiSoft® provides rich picture library. It includes many popular image categories widely used for industrial application development.



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



**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.





# Supported Objects

# Supported Tasks

# Supported Printers


Drawing Tools
<ul style="list-style-type: none"> <li>• Line, Rectangle, Ellipse</li> <li>• Rounded Rectangle</li> <li>• Text, Multilingual text</li> <li>• Picture</li> </ul>
Data Entry / Data Display
<ul style="list-style-type: none"> <li>• Numeric data</li> <li>• Bit data</li> </ul>
Clock objects
<ul style="list-style-type: none"> <li>• Time</li> <li>• Date</li> </ul>

Advance Objects
<ul style="list-style-type: none"> <li>• Buttons</li> <li>• Lamps</li> <li>• Bargraph</li> <li>• Multiple Bargraph</li> <li>• Analog Meter</li> <li>• Alarm</li> <li>• Numeric Keypad</li> <li>• ASCII Keypad</li> <li>• Custom Keypad</li> </ul>

Supported tasks
<ul style="list-style-type: none"> <li>• Button specific tasks</li> <li>• Global tasks</li> <li>• Screen specific tasks</li> <li>• Data exchange tasks</li> </ul>

FlexiPanels® support following Dot Matrix serial printers:

- EPSON
- SAMSUNG
- TVS



## Protocols Supported Include

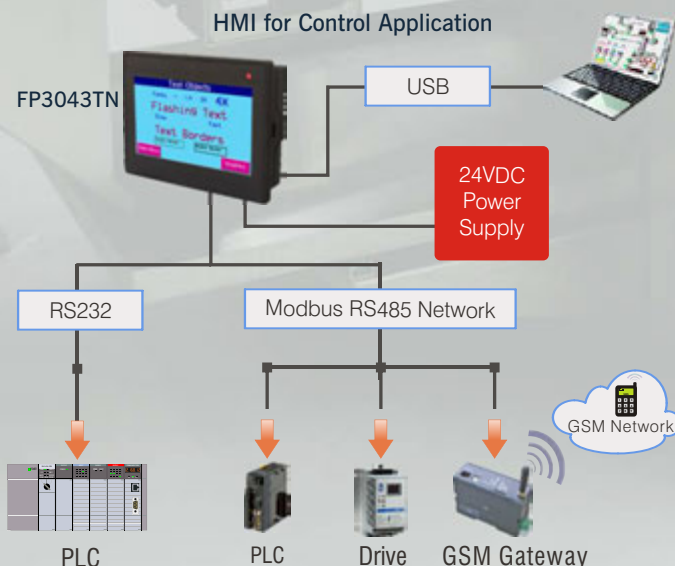
Serial Driver	FP3 Series
ABB PLCs	✓
Allen Bradley DF1	✓
Aromat FP Series	✓
Baldor	✓
Danfoss Drive	✓
Delta PLCs	✓
Fatek PLCs	✓
FlexiLogics*	✓
FlexiLogics Slave Driver*	✓
G9SP Safety Controller	✓
GE SNP	✓
GE SNP-X	✓
Idec PLCs	✓
LG Master K Series PLC	✓
LG Master-K 300S	✓
Mitsubishi FX	✓

Serial Driver	FP3 Series
Mitsubishi Q series PLCs (Serial)	✓
Modbus ASCII (Unit as Master)	✓
Modbus RTU (Unit as Master)	✓
Modbus RTU (Unit as Slave)	✓
Omron Host Link	✓
Omron Inverter Memobus	✓
Siemens Gas Analyser (Master)	✓
Siemens Micromaster Driver (USS)	✓
Siemens Step-7 Micro	✓
Toshiba (Link Port) Series PLCs	✓
Toshiba Inverters PLC	✓
Toshiba T Series	✓
TriPLC	✓
Twido PLCs	✓
Unitelway PLCs	✓
Universal Serial Driver (ASCII)	✓

Ethernet Driver	FP3 Series
AB PLC EIP PCCC (Ethernet IP)	✓
FlexiLogics*	✓
FlexiLogics Slave Driver*	✓
Logix 5000 PLCs	✓
Modbus/TCP Master (Client)	✓
Modbus/TCP Server (Slave)	✓
Universal Ethernet Driver (ASCII)	✓

\*Supported with native programming environment.

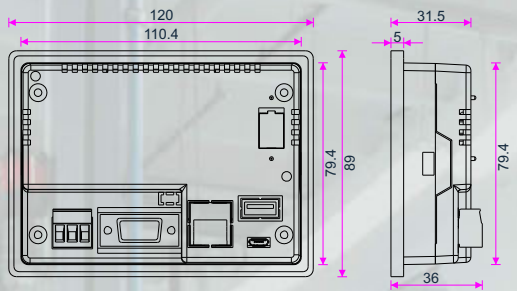
## Application Example



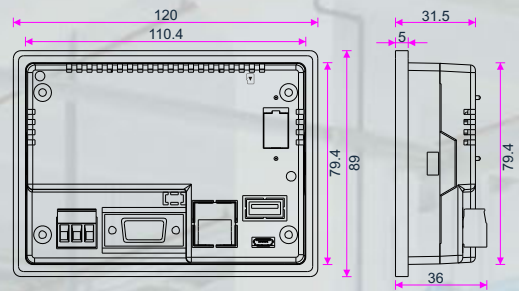
## Ordering Information

Models	Description
FP3043T	4.3" TFT, 24VDC, 2 Serial ports (1 RS232, 1 RS485), 1 USB device, 1 USB host
FP3043TN	4.3" TFT, 24VDC, 2 Serial ports (1 RS232, 1 RS485), 1 USB device, 1 USB host, 1 Ethernet, 1 SD Card Slot
FP3070T	7" TFT, 24VDC, 2 Serial ports (RS232/RS485), 1 USB device, 1 USB host
FP3070TN	7" TFT, 24VDC, 2 Serial ports (RS232/RS485), 1 USB device, 1 USB host, 1 Ethernet, 1 SD Card Slot
FP3102T	10.2" TFT, 24VDC, 2 Serial ports (RS232/RS485), 1 USB device, 1 USB host
FP3102TN	10.2" TFT, 24VDC, 2 Serial ports (RS232/RS485), 1 USB device, 1 USB host, 1 Ethernet, 1 SD Card Slot
Programming SW	FlexiSoft® v2.3 and later (Free)

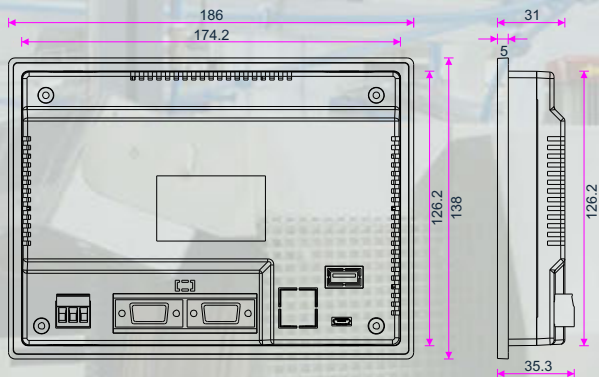
# Dimensions



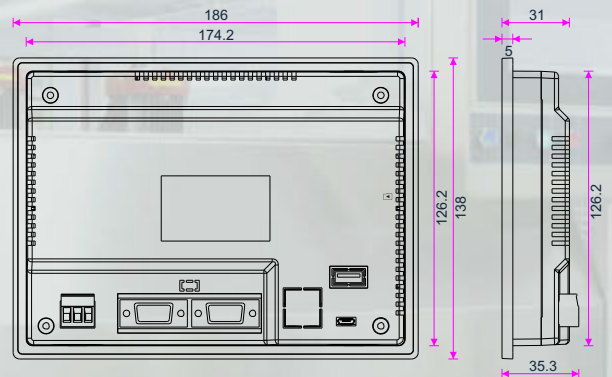
Drawing A



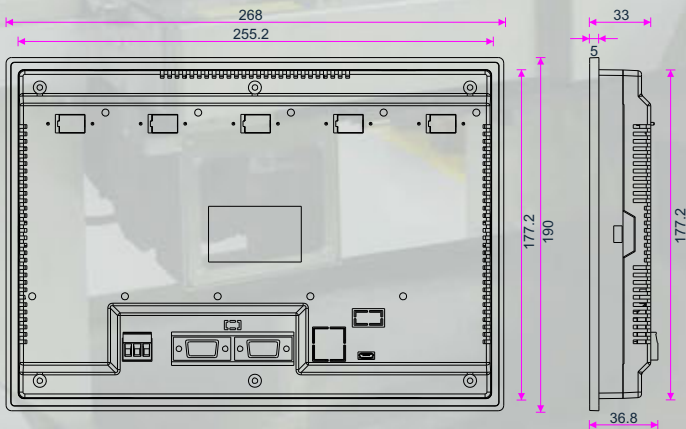
Drawing B



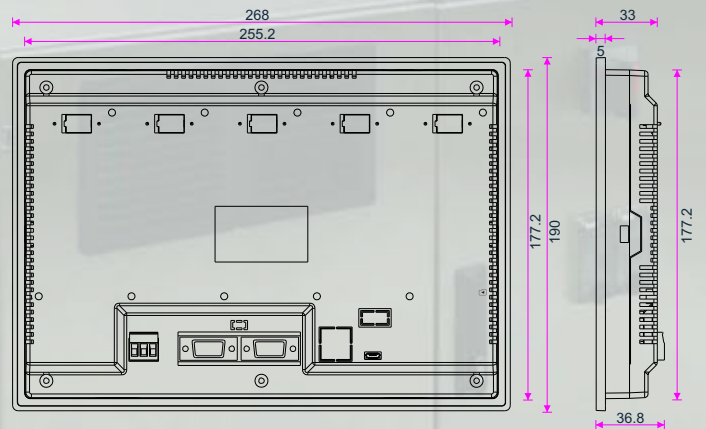
Drawing C



Drawing D



Drawing E



Drawing F

All dimensions are in mm.