FlexiPanels® Advance HMI

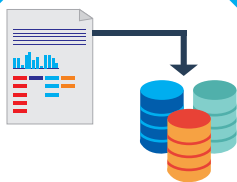## FP4 Series

VNC SERVER

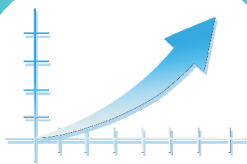**WEB SERVER**

EMAIL

DATA LOGGING

ALARMS

RECIPE MANAGEMENT

TREND

FP4 Advance series offers a powerful, feature rich and versatile HMI product range that provides a perfect solution for complex application needs. A powerful combination of FlexiSoft configuration software and new FlexiSoft runtime gives a perfect balance of ease of configuration and efficient performance.
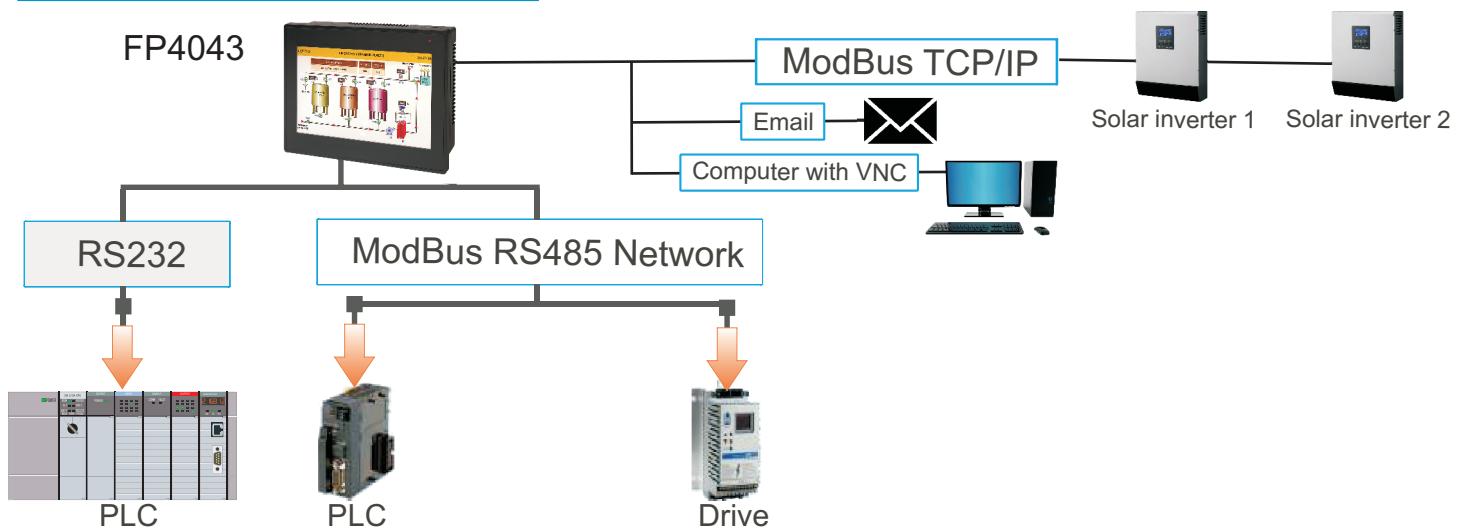
MODEL COMPARISON

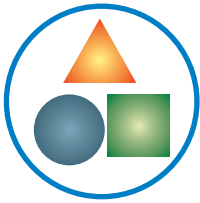| Model	FP4043 Series		FP4070 Series		FP4101 Series		FP4121 Series		FP4150 Series	
Part	FP4043T	FP4043TN	FP4070T	FP4070TN	FP4101T	FP4101TN	FP4121T	FP4121TN	FP4150T	FP4150TN
Display										
Size	4.3" WQVGA Color TFT		7" WVGA Color TFT		10.1" WVGA Color TFT		12.1" SVGA Color TFT		15" XGA Color TFT	
Resolution	480 x 272		800 x 480		1024 x 600		800 x 600		1024 x 768	
Touch	Analog Resistive		Analog Resistive		Analog Resistive		Analog Resistive		Analog Resistive	
CPU and Power										
CPU	32-bit RISC processor		32-bit RISC processor		32-bit RISC processor		32-bit RISC processor		32-bit RISC processor	
eMMC	4 GB		4 GB		4 GB		4 GB		4 GB	
RAM	512 MB		512 MB		512 MB		512 MB		512 MB	
Power Supply	24 VDC (±15%)		24 VDC (±15%)		24 VDC (±15%)		24 VDC (±15%)		24 VDC (±15%)	
Isolation	Yes		Yes		Yes		Yes		Yes	
RTC	Built-in		Built-in		Built-in		Built-in		Built-in	
Communication										
Serial	2X RS232 / RS485#		2x RS232 / RS485		2x RS232 / RS485		2x RS232 / RS485		2x RS232 / RS485	
USB Device	1x micro 2.0		1x micro 2.0		1x micro 2.0		1x micro 2.0		1x micro 2.0	
USB Host	1x 2.0		1x 2.0		1x 2.0		1x 2.0		1x 2.0	
Ethernet	NA	1x 10/100 Mbps	NA	1x 10/100 Mbps	NA	1x 10/100 Mbps	NA	1x 10/100 Mbps	NA	1x 10/100 Mbps
SD Card Slot	NA	1x microSD HC	NA	1x microSD HC	NA	1x microSD HC	NA	1x microSD HC	NA	1x microSD HC
Environment & Approvals										
Operating Temperature	-10~60°C*		-10~60°C*		-10~60°C*		-10~60°C*		-10~60°C*	
Storage Temperature	-20~85°C		-20~85°C		-20~85°C		-20~85°C		-20~85°C	
Humidity	10~95% non condensing		10~95% non condensing		10~95% non condensing		10~95% non condensing		10~95% non condensing	
Shock	25g, 11ms, 6 shocks per axis, Total 18 shocks (X, Y, Z)		25g, 11ms, 6 shocks per axis, Total 18 shocks (X, Y, Z)		25g, 11ms, 6 shocks per axis, Total 18 shocks (X, Y, Z)		25g, 11ms, 6 shocks per axis, Total 18 shocks (X, Y, Z)		25g, 11ms, 6 shocks per axis, Total 18 shocks (X, Y, Z)	
Vibration	5~150 Hz, 3g peak, (X, Y, Z)		5~150 Hz, 3g peak, (X, Y, Z)		5~150 Hz, 3g peak, (X, Y, Z)		5~150 Hz, 3g peak, (X, Y, Z)		5~150 Hz, 3g peak, (X, Y, Z)	
Protection	IP66 for front panel mounting		IP66 for front panel mounting		IP66 for front panel mounting		IP66 for front panel mounting		IP66 for front panel mounting	
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	

*Note: For UL Operating Temperature range is 0-50°C. # FP4043 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.

APPLICATION EXAMPLE

Objects

FP4 advance series offers variety of objects like buttons, bar graphs, lamps, meters, multilingual text, calendar, clock etc. along with data display / data entry and other static objects. The objects support powerful animation and gradient effects.

Datalogging and recipe

FP4 supports powerful data logging with the option of using internal memory or external memory for logging the data. It also supports powerful recipe wizard.
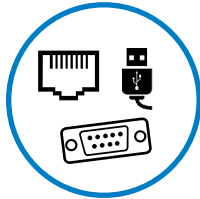
Trend and XY Plot

FP4 supports powerful graphical representation of tag against the real time. It also supports graphical representation of historical data.
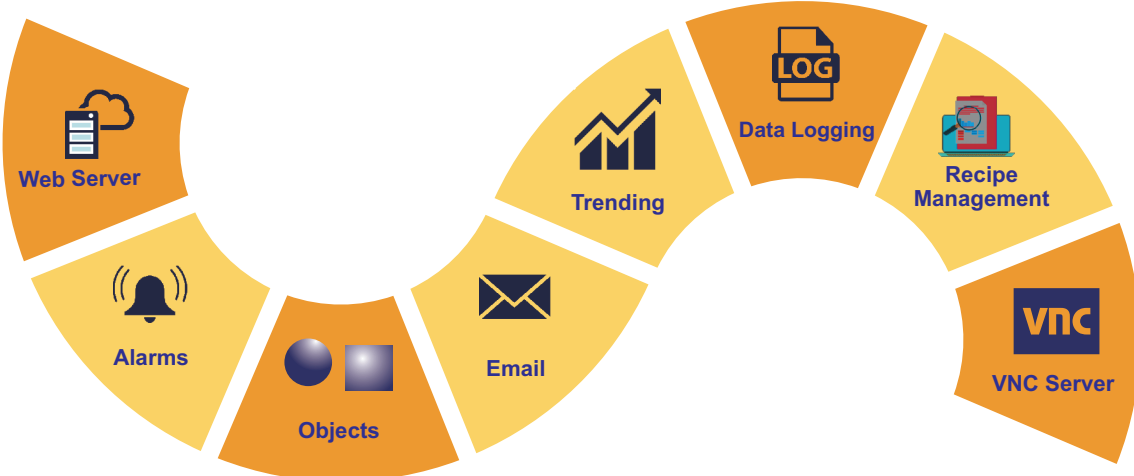
Alarm

FP4 supports real time as well as historical alarms. Using Alarm object, user can visualize generated Alarm with system. For better Visualization multiple fonts, colours can be used for indication.

Connectivity

FP4 provides connectivity over USB, Ethernet and Serial ports. User can download and upload the application to/from the device and monitor logic and data.

Web Server

Alarms

Objects

Email

Trending

LOG
Data Logging

Recipe Management

vnc
VNC Server

ORDERING INFORMATION

FP4 | **x x x** - **Tx**

Series

043 : 4.3"
070 : 7"
101 : 10.1"

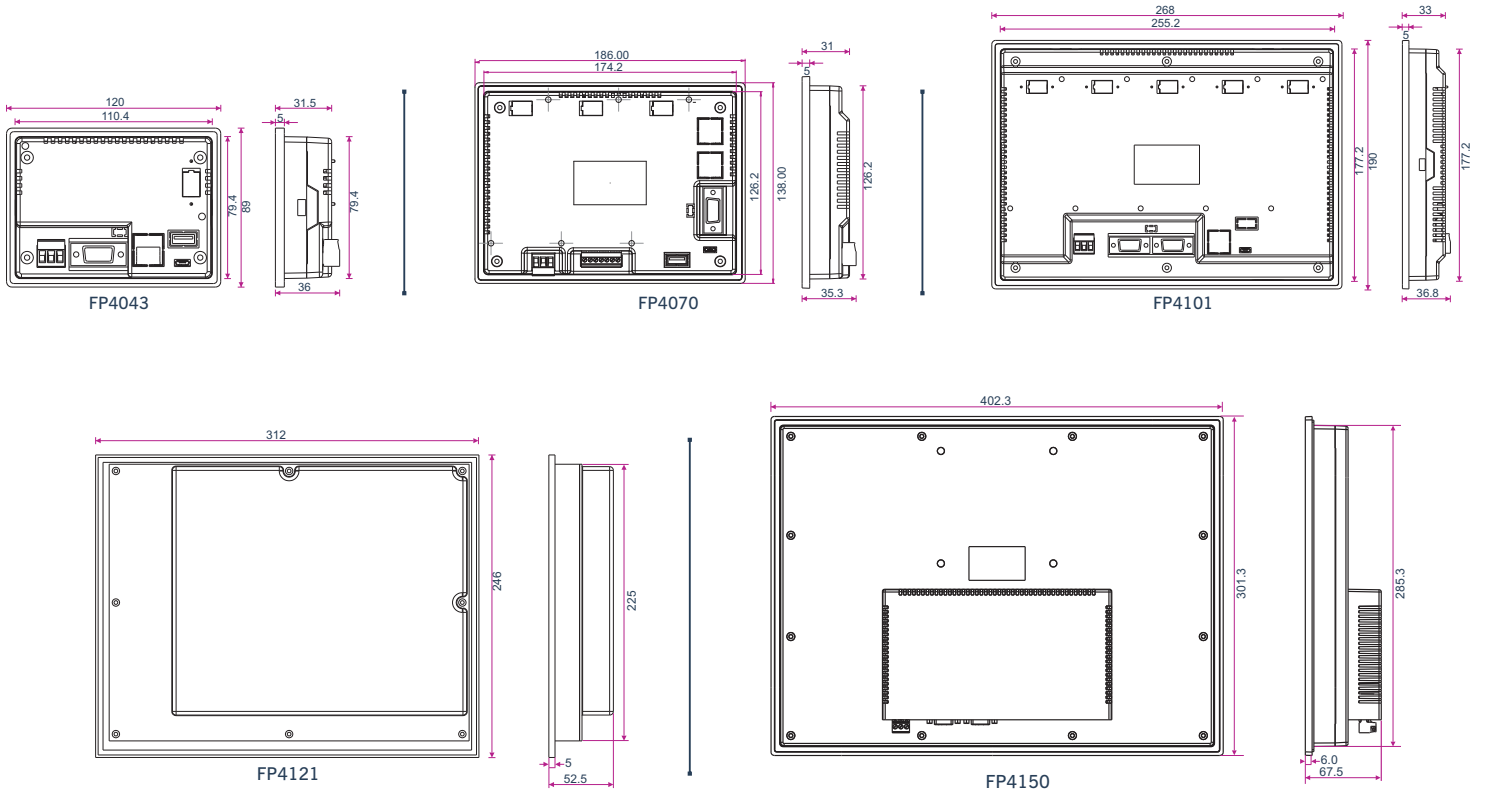**T** : No Ethernet and SD card slot

TN : Supports Ethernet and SD card slot

SUPPORTED PROTOCOLS

| Modbus RTU (Unit as Master) |
| Modbus RTU (Unit as Slave) |
| Modbus/TCP Master (Client) |
| FlexiLogics Master Driver |
| FlexiLogics Slave Driver |
| Delta PLCs |
| Fatek PLCs |

Note: Presently FP4 Series HMIs Support above Communication Protocols. We plan to support more protocols soon. Please contact factory regarding more information about it.

DIMENSIONS

FP4043

FP4070

FP4101

FP4121

FP4150

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

(Preliminary Datasheet. Specifications subject to change without prior notice. DS-FP-4-Rev.B)