FLEXIPANELS® - FP3043

☑ **NEW HIGH PERFORMANCE 4.3" HMI 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**

RENU
ELECTRONICS PVT. LTD.

FP3043

Salient Features

☑ 4.3" 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
Display	4.3" WQVGA Color TFT	4.3" WQVGA Color TFT
Brightness	400 cd/m²	400 cd/m²
Resolution	480x272 Pixels	480x272 Pixels
Backlight	LED Backlight	LED Backlight
CPU	32-bit RISC processor	32-bit RISC processor
Memory	Up to 128MB	Up to 128MB
Screen Memory	Up to 45MB	Up to 45MB
Historical Alarms	2700 Alarms	2700 Alarms
Retentive Memory	22000 Words (EEPROM)	22000 Words (EEPROM)
Data Log	Up to 20 MB	Up to 20 MB
Serial Communication	Number of ports	2#	2#
	Com1	RS232	RS232
	Com2	RS485	RS485
USB Interfaces	USB Device	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
SD Card Slot	Type	NA	microSD HC
	Capacity	NA	High Capacity (4GB to 32GB)
	Speed Class	NA	© ④ © ⑩
	UHS Speed Class	NA	Ⓤ 1
Ethernet Interface	NA	One 10/100 Mbps
RTC	Yes	Yes
Power Supply	24VDC (±15%)	24VDC (±15%)
Power Rating	4W	4W
Operating Temperature	0 to 60° C##	0 to 60° C##
Storage Temperature	-20 to 85° C	-20 to 85° C
Humidity	10 to 85% non condensing	10 to 85% non condensing
Approvals	CE, UL Class I Div 2	CE, UL Class I Div 2
Mounting	Front Panel Mounting, IP66 rated	Front Panel Mounting, IP66 rated
Weight (Approximate)	200 gms.	200 gms.
Bezel Dimensions (mm)	120W x 89H x 31.5D (Drawing A)	120W x 89H x 31.5D (Drawing B)
Panel Cutout (mm)	111W x 80H	111W x 80H

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.
##For UL, operating temperature range is 0 to 50°C

Protocols Supported Include

Serial Driver	FP3043
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	✓
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	FP3043
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.
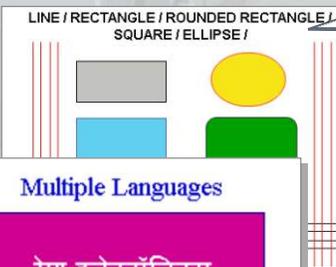
Graphical Objects
FlexiSoft® supports various graphical objects like Rectangle / Rounded Rectangle / Ellipse / Square and Line.

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'.
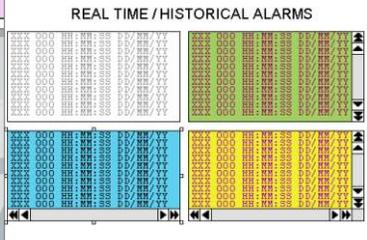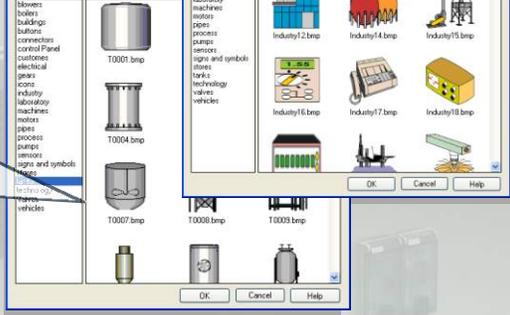
Picture Library
FlexiSoft® provides rich picture library. It includes many popular image categories widely used for industrial application development.
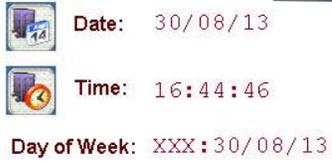
Real Time Clock
Real Time Clock object helps user to display date, time and day of week.
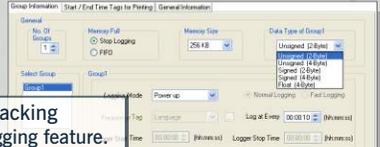
Data Logging & Trend Tracking
FlexiSoft® support data logging feature. Real time as well as Historical Trending is also supported. The user can also display multiple trends with different pen color on one screen.

LINE / RECTANGLE / ROUNDED RECTANGLE / SQUARE / ELLIPSE /

Multiple Languages
रेणू इलेक्ट्रॉनिक्स
मराठी

BAR GRAPH
Multiple Bargraphs
Analog Meter
Keypad
BUTTONS
REAL TIME / HISTORICAL ALARMS

Windows Fonts for Data Entry and Data Display
Arial, 12pt
Arial, 14pt
Arial, 18pt
Times New Roman, 22pt
30pt 42pt
50pt 62pt
Tahoma
72pt
90pt

Picture Library

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

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

Supported Objects

Drawing Tools
- Line, Rectangle, Ellipse
- Rounded Rectangle
- Text, Multilingual text
- Picture

Data Entry / Data Display
- Numeric data
- Bit data

Clock objects
- Time
- Date

Advance Objects
- Buttons
- Lamps
- Bargraph
- Multiple Bargraph
- Analog Meter
- Alarm
- Numeric Keypad
- ASCII Keypad
- Custom Keypad

Supported Tasks

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

Supported Printers

FlexiPanels® support following Dot Matrix serial printers:
➢ EPSON
➢ SAMSUNG
➢ TVS

Application Example

HMI for Control Application

FP3043TN

USB

24VDC Power Supply

RS232

Modbus RS485 Network

GSM Network

PLC   PLC   Drive   GSM Gateway
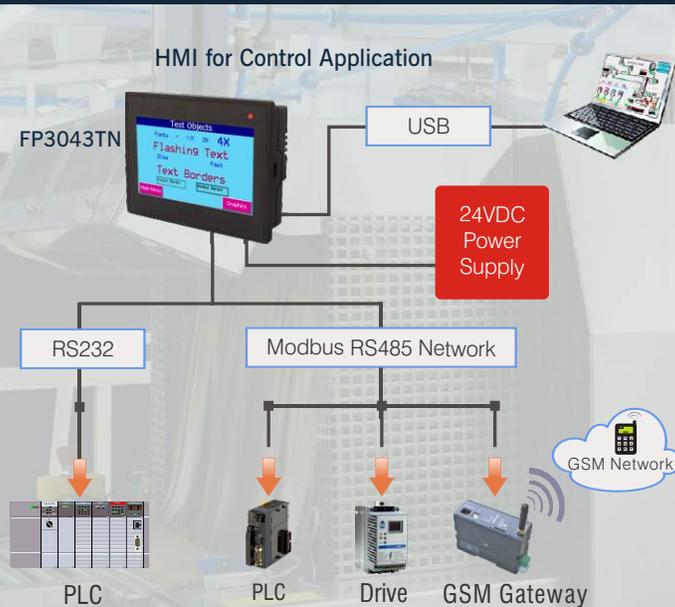
Ordering Information

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
Programming SW	FlexiSoft® v2.3 and later (Free)

Dimensions

120
110.4
31.5
5
79.4
89
79.4
36

Drawing A

120
110.4
31.5
5
79.4
89
79.4
36
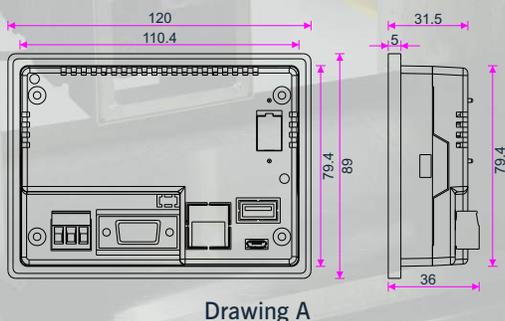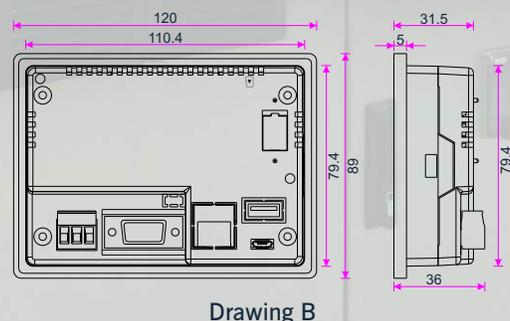
Drawing B

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

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

(Preliminary Datasheet. Specifications subject to change without prior notice. DS-FP3043-Rev.C)