FLEXIPANELS® - FP3070

☑ **NEW HIGH PERFORMANCE 7" 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.

FP3070

Salient Features

☑ 7" 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		FP3070T	FP3070TN
Display		7" WVGA Color TFT	7" WVGA Color TFT
Brightness		300 cd/m²	300 cd/m²
Resolution		800x480 Pixels	800x480 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 Comm-unication	Number of ports	2	2
	Com1	RS232 / RS485	RS232 / RS485
	Com2	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
	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	② ④ ⑥ ⑩
	UHS Speed Class	NA	⑴
Ethernet Interface		NA	One 10/100 Mbps
RTC		Yes	Yes
Power Supply		24VDC (±15%)	24VDC (±15%)
Power Rating		9W	9W
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)		400 gms.	400 gms.
Bezel Dimensions (mm)		186W x138H x 31D (Drawing C)	186W x138H x 31D (Drawing D)
Panel Cutout (mm)		175W x 127H	175W x 127H

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

Protocols Supported Include

Serial Driver	FP3070
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	FP3070
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.
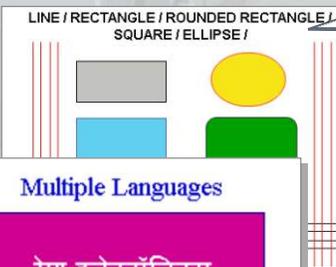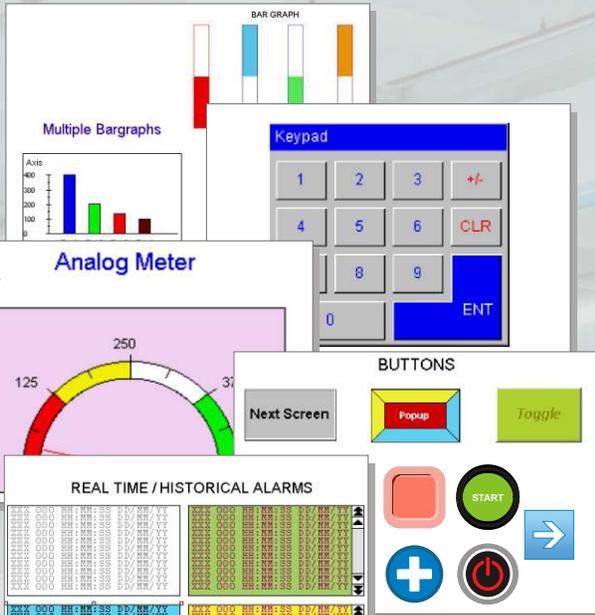
Graphical Objects
FlexiSoft® supports various graphical objects like Rectangle / Rounded Rectangle / Ellipse / Square and Line.

Advanced Objects
FlexiSoft® supports most popular advanced objects like Bargraphs, Multiple Bargraphs, Analog Meter Real Time / Historical Alarms, Buttons.
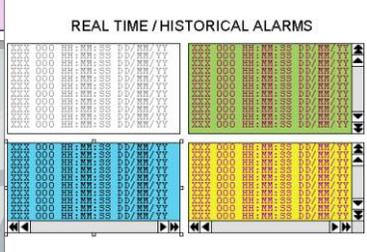
Windows Font for Display Data and Data Entry
FlexiSoft® supports True type Windows font for Data Entry and Data Display objects. Supported fonts are 'Arial', 'Times New Roman' and 'Tahoma'.
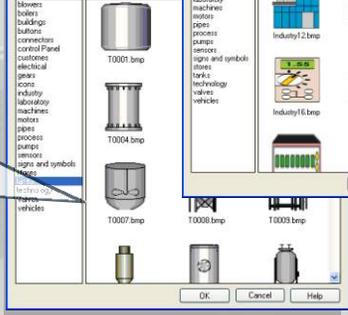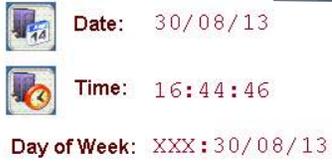
Picture Library
FlexiSoft® provides rich picture library. It includes many popular image categories widely used for industrial application development.
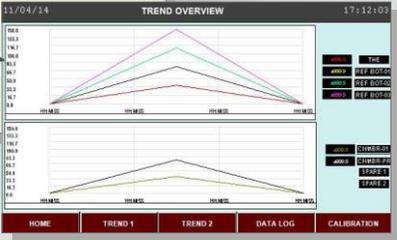
Real Time Clock
Real Time Clock object helps user to display date, time and day of week.

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.

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
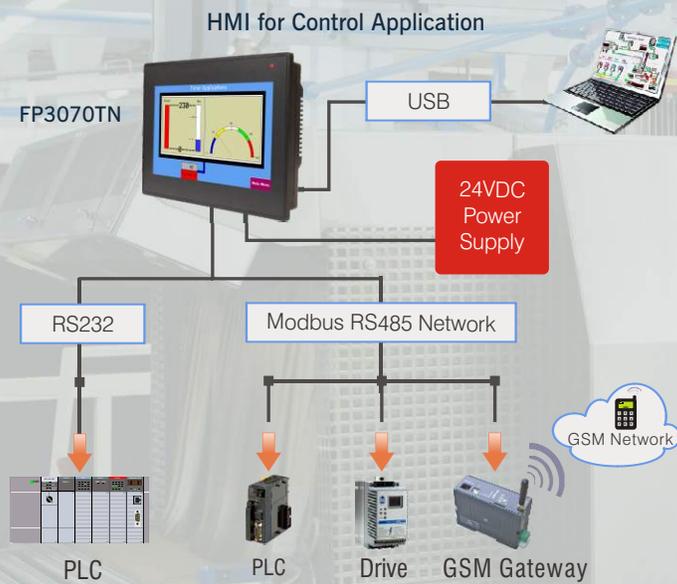- Global tasks
- Screen specific tasks
- Data exchange tasks

Supported Printers

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

Application Example

HMI for Control Application

FP3070TN

USB

24VDC Power Supply

RS232

Modbus RS485 Network

GSM Network

PLC   PLC   Drive   GSM Gateway

Ordering Information

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

Dimensions

186 | 174.2 | 31 | 5 | 126.2 | 138 | 126.2 | 35.3

Drawing C

186 | 174.2 | 31 | 5 | 126.2 | 138 | 126.2 | 35.3
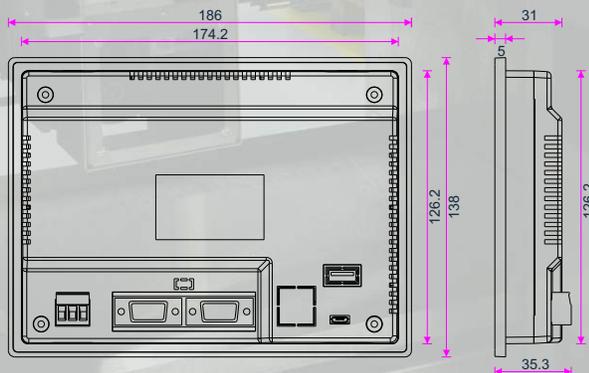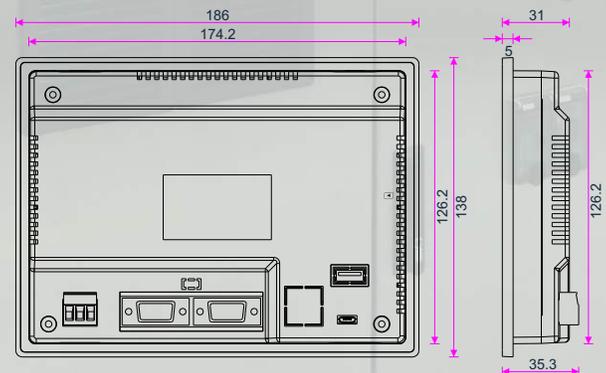
Drawing D

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-FP3070-Rev.C)