FlexiPanels® FP1 Series HMI with I/Os
FP1043CN-E

SALIENT FEATURES

- 4.3" Color TFT Capacitive with 16: 9 Aspect Ratio and Plastic Housing
- 1 X Pluggable Expansion modules with configurable Analogue I/O
- Suitable for basic applications with trends, tasks, alarms, Data logging.
- Built in PLC Controller function programmable by installed IEC 61131-3 based software
- Competitively priced
- IP66 protection for front panel mounting
- Approvals: CE, UL Class I Div 2, IP66, UKCA,ROHS and REACH



DETAILED SPECIFICATIONS

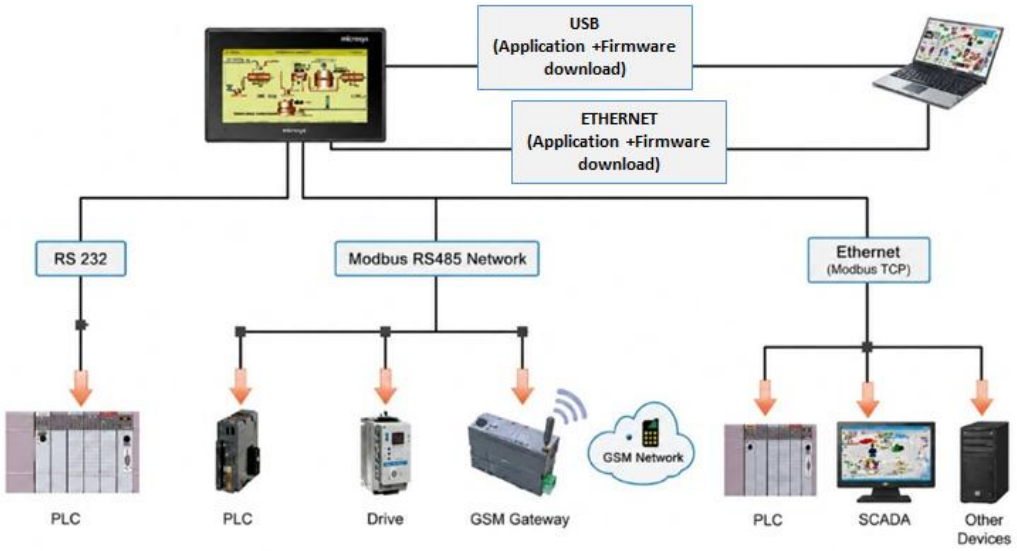
Part Number	FP1043CN-E
Size	4.3"
Resolution	480 x 272 pixels
Touch Screen	Capacitive
Housing	Plastic
CPU and Power	
CPU	32-bit RISC Processor
Supply Voltage	24VDC (±20%)
Power Consumption	7.8 W
Backlight Life	>50,000 hours
Brightness	450 nits
RAM	64 MB
User Application	25 MB
Logic Memory	2 MB
Retentive Memory	8000 Bytes (4000 Words)
Tag Memory	50 KB
Data Logger	10 MB
SD card slot	Micro SD card supported (4 to 32 GB)
RTC	Built-in
Panel Cutout	80(H) x 111(W)mm
Product Dimensions	89(H) x 120(W) x 31.5(D)mm
Expansion supported	Supports 1 Expansion slot
PLC Language support	IEC61131-3 (LD, SFC, IL, FBD, ST)

Communication	
Serial	(1 x RS232) + (1 x RS485#)
USB Device	1 USB Type C & 1 USB Host
Ethernet	1 Ethernet Port
IoT connectivity	Yes (MQTT)
Operating Temp.	0°C to 60°C (Operating temperature: For UL 0 to 50°C)
Storage Temp.	-30°C to 80°C
Humidity	10 to 90% (Non-condensing)
Protection	IP66 (front panel), IP20 (rear panel)
Approvals	CE, UL(Class 1 Div.2), RoHS, UKCA, REACH

[**# Note:** FP1043CN-E support one DB9 port that supports RS232 & RS485 levels on different pins. "Y" type cable can be used for separate RS232 and RS485 levels simultaneously.]

APPLICATION EXAMPLE

FP1043CN-E



SUPPORTING OBJECTS

Drawing Tools
Line
Rectangle
Circle
Multilingual text
Image
Scale

Data Entry / Data Display
Numeric data
Bit data
Message Data

Advanced Objects
Navigation Button
Advanced Bit Button
Simple Word Button
Simple Bit Button
Bit Lamp
Word Lamp
Bargraph
Analog Meter
Real Time Trend
Historical Trend

Supported Tasks
Button specific tasks
Global tasks
Screen specific tasks
Power On tasks

Clock Objects
Time
Date

Pluggable Expansion Modules Comparison

Model	Digital I/P	Digital Output	Analog Input	Analog Output	Description
FPEM-1210RP-A0201L-V2	12	10	2	1	12 bi-directional digital inputs, 10 digital outputs (2 PNP-type transistor outputs and 8 relay-type outputs), 2 analog inputs (16 bit resolution), and 1 analog output (12 bit resolution)
FPEM-1210RP-V2	12	10	-	-	12 bi-directional digital inputs, 10 digital outputs (2 PNP-type transistor outputs and 8 relay-type outputs).
FPEM-1212RP-A0200L-V2	12	12	2	-	12 bi-directional digital inputs, 12 digital outputs (2 PNP-type transistor outputs and 10 relay-type outputs), 2 analog inputs (16 bit resolution).
FPEM-1210P-A0201L-V2	12	10	2	1	12 bi-directional digital inputs, 10 PNP type digital outputs, 2 analog inputs (16 bit resolution) & 1 analog output (12-bit resolution)
FPEM-1212P-A0200L-V2	12	12	2	-	12 bi-directional digital inputs, 12 PNP type digital outputs, 2 analog inputs(16 bit resolution).
FPEM 1616P-V2	16	16	-	-	16 Bi-directional type digital inputs, 16 PNP type transistor outputs
FPEM 1614RP-V2	16	14	-	-	16 bi-directional digital inputs, 14 digital outputs (2 PNP-type transistor outputs and 12 relay-type outputs).
FPEM-0808RP-A0401U-V2	8	8	4	1	8 bi-directional digital inputs, 8 digital outputs (2 PNP-type transistor outputs and 6 relay-type outputs). 4 Universal inputs (16-bit resolution) & 1 Analog output (12-bit resolution)

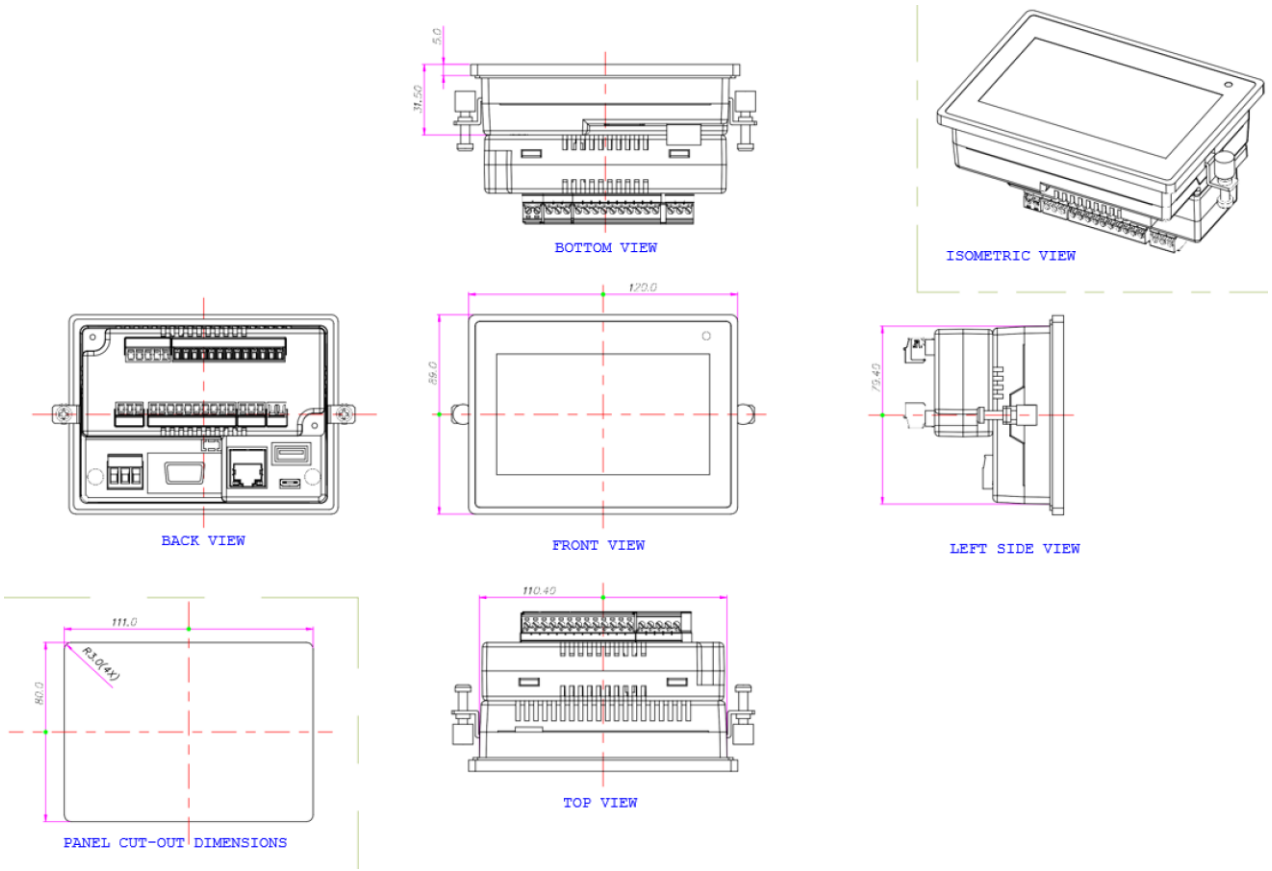
SUPPORTED PROTOCOLS

Sr. No.	Protocols	Sr. No.	Protocols
1	Delta PLCs Driver	6	Modbus RTU (Unit as Slave)
2	FlexiLogics Slave Driver (Serial)	7	Modbus TCP/IP client
3	FlexiLogics Master Driver (Serial)	8	Modbus TCP/IP server
4	Universal ASCII	9	Siemens Profinet
5	Modbus RTU (Unit as Master)		

ORDERING INFORMATION

Models	Description
FP1043CN-E	4.3” 480 x 272 TFT, Capacitive touch with over glass, 24VDC, 1 Serial ports (COM1: DB9:RS232/RS485), 1x RJ45 (10/100Mb) Ethernet ports, 1xUSB Host, 1xUSB Slave, 1 micro SDHC slot, Max. Expansion module supported - 1

DIMENSIONS



RENU FACTORY AUTOMATION

HEAD OFFICE
Survey No. 2/6, Baner Road,
Pune - 411045, India.
Tel : +91 20 2729 2840 - 46
Email : info@renuelectronics.com

FACTORY
Gat No. 1163, Ghotawade,
Tal - Mulshi, Pune - 412115, India.
Tel: +91 20 6687 2900

REGIONAL OFFICES
- Ahmedabad
- Bangalore
- Chennai
- Coimbatore
- Kolkata
- Mumbai
- New Delhi

OVERSEAS DISTRIBUTORS
- USA
- Europe
- Asia Pacific