Models:

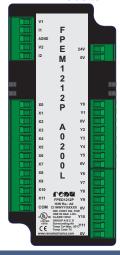
FPEM-1212P-A0200L

FlexiPanels FP3 series expansion models

INSTRUCTION SHEET

Thank you for purchasing FlexiPanels series analog expansion model FPEM-1212P-A0200L. Please read the instruction sheet and thoroughly familiarize yourself with the functions and characteristics of the products before use.

For more information, please refer user manual which will be available in FlexiSoft software help and/or you can download from REPL website.



Specifications:

Power Supply
Voltage Rating: 24 VDC +/-15%, 12V from base
Power Rating: Input/ Channel: 5mA, 24VDC
Output/ Channel: 250mA @ 24VDC

Approvals: CE, UL

Digital Inputs: 12 Inputs Bi-directional Type

(Within which 2 pairs are high

speed)

Input Design: According to EN 61131-2 Type 1

Min. ON Voltage
Max. ON Voltage
Min.OFF Voltage
Max. OFF Voltage
Max. OFF Voltage
Nominal input voltage
Nominal input current

15 VDC
30 VDC
5 VDC
44 VDC
5 MA typical

Isolation Optically isolated from internal

circuit., High isolation

voltage(BV= 3.7KV)
edance 3k Ohm

Input Impedance 3k Ohm
Turn OFF time 10msec
Turn ON time 10msec

High Speed Inputs:

No. of HS inputs: 2 pairs, X0-X1, X2-X3

Max. i/p frequency: 200kHz Max. i/p count: 42949672965

Digital Outputs: 12 PNP type transistor outputs

(2 PWM o/p) and

Min. ON o/p Voltage: 22VDC
Max. ON o/p Voltage: 30VDC
Min. OFF o/p Voltage: 0.2VDC
Max. OFF o/p Voltage: 1VDC
Nominal Output voltage: 30VDC

Nominal o/p current 300mA Typ./channel

Isolation Optically isolated from internal circuit., High isolation voltage

(BV = 3.7 KV)

Short Circuit protection Yes

Nominal load

96ohms/6W (resistive) @ 24VDC 6VA (inductive, unity

power factor)

High Speed Outputs:

Duty cycle step:

No. Of HS outputs: 2, Y0 and Y1
Max. O/p frequency: 1kHz
Frequency step: 1Hz
PWM duty cycle: 0 to100%

Analog Inputs: 2 Input Channels Voltage Input: 0 - 10 V, 0 - 5 V; Current Input: 0-20mA, 4-20mA

Resolution: 16-bit

Accuracy: 0.2% of full scale@ 25°C

General:

Operating Temperature: **0 to 60°C. Storage Temperature: -20 to 85°C.

Operating Humidity: 10% to 90% (Non condensing)
Mechanical Dimension: 48mm x 108mm x 41mm

1%

 $(W \times H \times D)$

Weight:

**Operating temperature: For UL 0 to 50 °C

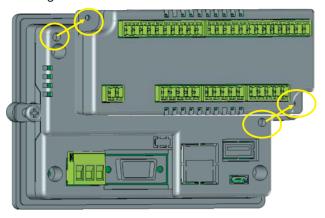
Mounting Details:

Mounting with base models:

With the expansions, while unpacking the unit, user will find 2 screws already attached with base bottom case. Fix the expansion with the HMI as shown below with these screws. Expansion connector will also be fixed with the expansion female connector given on base HMI.

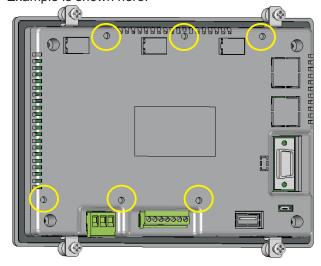
Apply torque 0.1Nm while fixing with base unit.

Mounting with FP3043TN-E and FP3043T-E models:

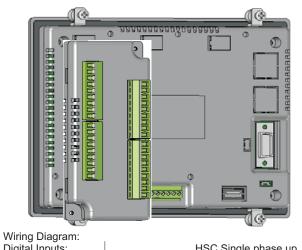


For 7" and 10.2" HMI models, the procedure of mounting expansions is same. Only instead of horizontal mounting, expansions will mount in vertical directions.

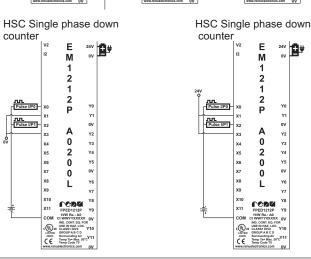
Hence accordingly these base are having facility to add 3 and 5 expansions at a time respectively. Example is shown here.

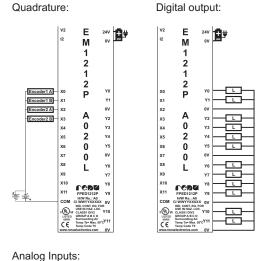


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Digital Inputs: HSC Single phase up counter M M M 2 2 2 2 2 Р Р Α 0 0 0 2 2 2 0 0 0 0 0 L COU COL





Current:

Voltage

This equipment is suitable for use in Class I, Division 2, Groups A, B, C and D or non-hazardous locations only.

WARNING – EXPLOSION HAZARD – Do not disconnect equipment unless power has been removed or the area is known to be non-hazardous.

WARNING – EXPLOSION HAZARD - Substitution of components may impair suitability for Class I, Division 2.

WARNING - CAUTION, Battery May Explode If Mistreated. Do Not Recharge, Disassemble Or Dispose Of In Fire.

The list of materials used in the construction of these devices with name of sealed device - generic name of the material and the supplier's name and type designation.

A recommendation for the user to periodically inspect the sealed devices used, for any degradation of properties and replace if degradation is found.

Technical Support:

For Technical support please contact factory along with the unit serial number and revision number written on the address sticker of the unit.

Also provide information of the application used.

Usually, including your application also provides a lot of help. If possible e-mail the application to factory.

MANUAL REVISIONS:

Rev. No. Date Description 1.00 31/01/17 First Draft



Quick Start Manual

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Renu Electronics Pvt. Ltd.

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