Models:

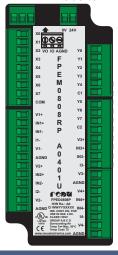
FPEM-0808RP-A0401U

FlexiPanels FP3 series expansion models

INSTRUCTION SHEET

Thank you for purchasing FlexiPanels series analog expansion model FPEM-0808RP-A0401U. 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

Approvals:

Voltage Rating: 24 VDC +/-15%, 12V and 3.3V

from base

Power Rating: Input/ Channel: 5mA, 24VDC Output/ Channel: 250mA @ 24VDC and

2A @ 230 VAC

CE, UL

Digital Inputs: 8 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

To VDC

30 VDC

-3VDC

5 VDC

24 VDC

5 mA typical

Isolation Optically isolated from internal

circuit., High isolation voltage(BV= 3.7KV)
Input Impedance 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: 2 PNP type transistor outputs

(2 PWM o/p) and 6 Relay outputs

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)

2. Y0 and Y1

High Speed Outputs: No. Of HS outputs:

Resolution:

Max. O/p frequency: 200kHz
Frequency step: 1Hz
PWM duty cycle: 0 to100%

Duty cycle step: 1%

Analog Inputs: 4 Universal Input Channels

 Voltage Input:
 0 - 10 V, 0 - 5 V;

 Current Input:
 0-20mA, 4-20mA

 mV Input:
 0 - 50mV. 0 - 100mV

RTD Input: α1 PT100: -200 - 850°C α2 PT100: -100 - 457°C PT1000: -200 - 850°C

Thermocouple input: J type -210-1200°C K type -200-1373°C

16-bit

Accuracy: 0.2% of full scale@ 25°C

Analog Outputs: 1 Output channel Current output: 4 - 20mA, 0 - 20mA Voltage Output: 0 - 10V, 0 - 5V

Resolution: 12-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

 $(W \times H \times D)$

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

->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.

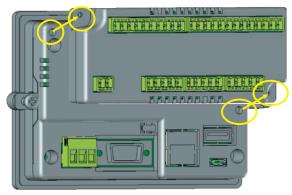
->A recommendation for the user to periodically inspect the sealed devices used, for any degradation of properties and replace if degradation is found.

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:

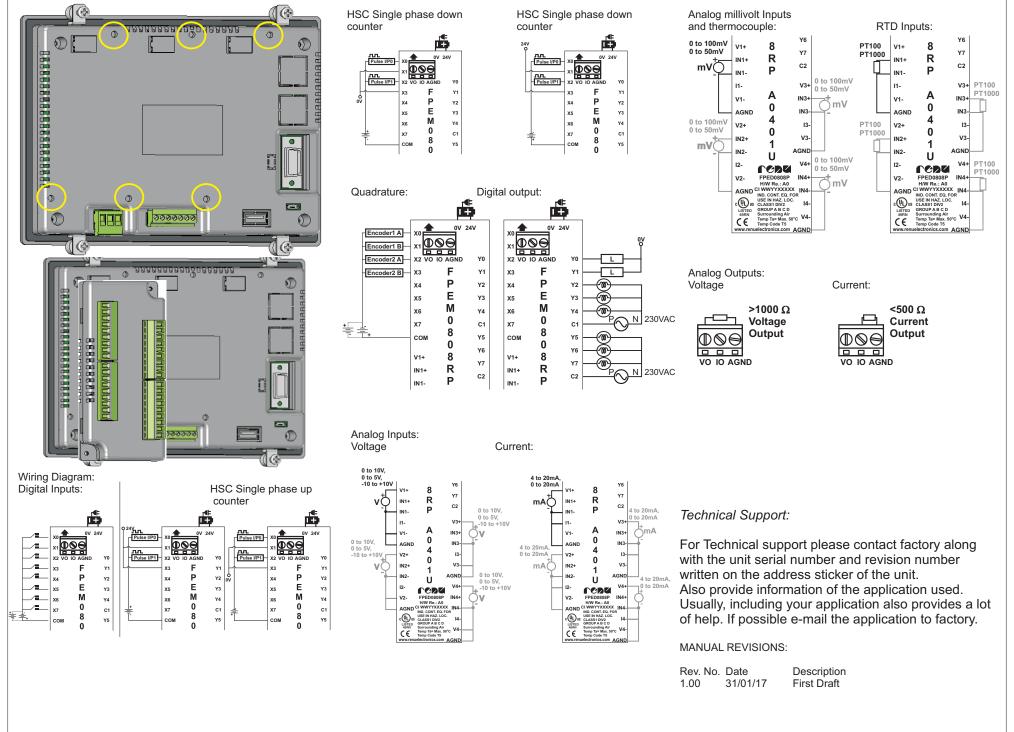


For 7" and 10.2" HMI models, the procedure of mounting expansions is same. Only instead of horizontal mounting, expansions will mount in vertical directions.

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

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Example is shown here.



RENU

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