Models: **FPEM1616P** FlexiPanels FP3 series expansion models

INSTRUCTION SHEET

Thank you for purchasing FlexiPanels series analog expansion model FPEM1616P. 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: Power Rating: Output/ Channel:	24 VDC +/-15%, 12V from base Input/ Channel: 5mA, 24VDC 250mA @ 24VDC
Approvals:	CE, UL
Digital Inputs:	16 Inputs Bi-directional Type (Within which 2 pairs are high speed)
Input Design: Min. ON Voltage Max. ON Voltage Min.OFF Voltage Max. OFF Voltage Nominal input voltage Nominal input current Isolation	According to EN 61131-2 Type 1 15 VDC 30 VDC -3VDC 5 VDC 24 VDC 5mA typical Optically isolated from internal circuit., High isolation

Input Impedance Turn OFF time Turn ON time

High Speed Inputs: No. of HS inputs: Max. i/p frequency: Max. i/p count:

Digital Outputs:

Min. ON o/p Voltage: Max. ON o/p Voltage: Min. OFF o/p Voltage: Max. OFF o/p Voltage: Nominal Output voltage: Nominal o/p current Isolation

Short Circuit protection Nominal load

High Speed Outputs: No. Of HS outputs: Max. O/p frequency: Frequency step: PWM duty cycle: Duty cycle step:

General:

Operating Temperature: Storage Temperature: Operating Humidity: Mechanical Dimension:

0 to 60°C. -20 to 85°C. 10% to 90% (Non condensing) 48mm x 108mm x 41mm $(W \times H \times D)$

Weight:

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

voltage(BV= 3.7KV) 3k Ohm 10msec 10msec

2 pairs, X0-X1, X2-X3 200kHz 42949672965

16 PNP type transistor output (2 PWM o/p) 22VDC 30VDC 0.2VDC

1VDC 30VDC 300mA Typ./channel Optically isolated from internal circuit., High isolation voltage (BV = 3.7 KV)Yes 96ohms/6W (resistive) @ 24VDC 6VA (inductive, unity power factor)

2, Y0 and Y1 1kHz 1Hz 0 to100% 1%

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.





Quadrature:

F

Ρ

Е

Μ

1

6 1

Ρ Y9

гери

X6

X10 6

¥12

(h)

Digital output:

X2 X3 X4 X5 X6 X7 X8 X9 X10 Ρ E м L 1 6 X11 P X12 X13 X14 redu X15

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

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