Rev. No.: 1.00A

03/2015

Survey No. 2/6, Baner Road,

Website: www.renuelectronics.com

Pune - 411045. India

Ph: +91 20 27292840

Fax: +91 20 27292839



Head Office: Survey No. 2/6, Baner Road, Pune - 411045. India Ph: +91 20 27292840 Fax: +91 20 27292839 Website: www.renuelectronics.com Factory: Gat Number 1163. Village Ghotawade, Taluka Mulshi, District Pune, Pune: 412115. Maharashtra, Ph: +91 20 66872900

# FL005 Series Models 000000000 00000000 0000 0 0 000000000000000 000000000 00000000000 0 FL005-0808N0201L FL005 Series 1 Analog Output channels: Current 4 - 20 mA 8 Digital Inputs Bi-directional Type (Within which 4 (Max load 500 ohm) are high speed) 2 Analog Input Channels: 8 Digital Outputs includes Voltage Input: 0 - 10 V. 0 - 5 V: 8 NPN transistor type Current Input: 0-20mA, 4-20mA FL005-0x0yN FL005 Series x: No of Digital Inputs Bi-directional y: No of Digital Outputs Type (Within which 4 are high speed) (NPN transistor type) FL005-0808N: FL005 Series model with 8 bidirectional inputs and 8 NPN transistor type outputs (within which 4 are high speed) FL005-0604N: FL005 Series model with 6 bidirectional inputs and 5 NPN transistor type outputs which are high speed also. **Head Office:** Factory: Gat Number 1163.

Village Ghotawade,

India

Taluka Mulshi, District Pune.

Pune: 412115. Maharashtra,

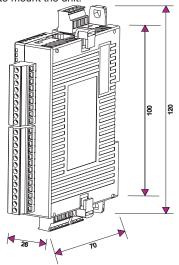
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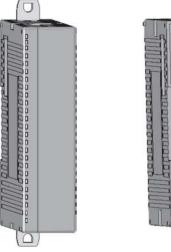
Panel mounting: FL005 units are shipped with a DIN rail slider attached to the unit. User can use DIN rail slider to mount the unit.

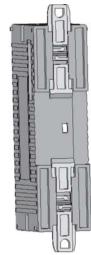


FL005 unit with DIN rail slider:

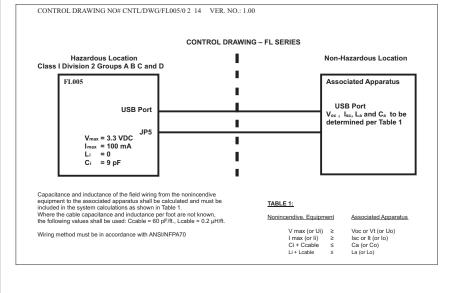


Rear View:





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This manual gives you a quick overview of the model and specifications. Read this manual thoroughly before installing and operating the unit.

This is only a Quick Start Manual. For detailed information on this product refer to 'FlexiLogics Manual'. You can download this manual free from the download section of our website. For a printed copy of this manual contact our nearest sales office.

For configuration details refer section 5.2.9 and 5.2.10 from user manual.

This document is based on information available at the time of it's publication and may not cover all the details or variations in hardware or software. Renu Electronics reserve the right to update information in this publication without prior notice.

## 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 PLC if used in application. Usually, including your application also provides a lot of help. If possible e-mail the application to us.

Renu Electronics Pvt. Ltd. Survey No. 2/6, Baner Road, Pune – 411 045. Maharashtra. INDIA

Tel: +91 20 27292840 Fax: +91 20 27292839

E-mail: support@renuelectronics.com Website: www.renuelectronics.com Factory:
Gat Number 1163,
Village Ghotawade,
Taluka Mulshi, District Pune,
Pune: 412115. Maharashtra,
India Ph: +91 20 66872900

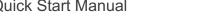


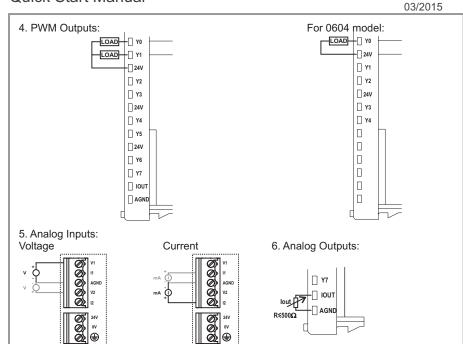
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FIG-3





Wiring details point 4 and 5 are applicable to FL005-0808RP0201L model only.

### WARNING:

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.

WARNING - Replace Battery With type CR1225FH-LF, manufactured by Renata SA, only. Use of Another Battery May Present A Risk Of Fire Or Explosion. See Owner's Manual For Safety Instructions"

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.

It is recommended that the user periodically inspect the sealed devices used, for any degradation of properties and replace the device if any degradation is found.

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FIG-1 Pull up the sliders provided with the unit towards outward direction.

FIG-2

FIG-2 Rest the unit on the DIN rail plate

FIG-3 Pull down the slider again so that unit can fix up with the DIN rail plate.

# Grounding:



The optimum method for grounding electronic equipment is to ground it separately from other high-power systems, and to ground more than one unit of electronic equipment with a single-point ground. The grounding marked terminal (see below) is provided on the unit.

Note: Do not use a ground that has an unstable impedance, such as painted screws, or ground subject to vibration.

### System Components:

- FL005 unit with removable counter part# connectors
- Power Supply Connector
- Installation Kit: White Sliders (2 Nos attached with the unit).
- \*FlexiSoft Software Installer DVD

\*FlexiSoft: Please check the latest version each time. Note: User should order programming cable separately.

### Port Details

COM1: RJ45 Pin description of communication port is as follows.

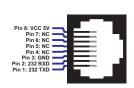
COM2: Removable terminal (4 pin): 2 Wire RS485

- 1. USB Device, compliant with USB 2.0 specification, self powered device.
- 2. Connector used: Standard USB Type B Female connector.



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Operating Humidity: 10% to 90%

General

Operating Temp.:

Storage Tempe.:

Vibration Tests:

Shock Test:

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0 to 55 deg.C.

IEC60068-2-6

IEC60068-2-27

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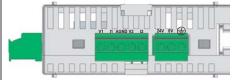
As per

As per

-20 to 85 dea.C.

(Non condensing)

03/2015



Specifications:

Power Supply: 24VDC, 900mA (+20%; -15%)

CE, UL (Class 1, Div 2) Standards: Memory: Total Program Memory: 292 KB

User Data:

Input Registers: 400 Words / 6400 pts. (Max.\*) Output Registers: 400 Words / 6400 pts. (Max.\*)

Data Registers: 4096 words

Retentive Registers: 1400 words (EEPROM)

System Registers: 256 words Timer Registers: 256 words Counter Register: 256 words Timer Devices: 256 points System Devices: 100 points Counter Devices: 256 points

Config. Register: 1600 Words / 25600 pts. (Max.\*)

Communication Ports

COM1 Port: COM1 (RJ45 Type): RS232 (5VDC, 200mA Power Source)

[For upload / download / communication / monitoring]

COM2 (Open terminals): 2-wire RS485 for communication **USB** Device 1 for upload / download / monitoring.

24V DC Digital Inputs:

Number of Inputs: 8 Inputs Bi-directional Type (Within which 4 are high speed channels)

In case of 0604 model: Inputs are 6 numbers

Input Design: According to EN 61131-2 Type 1

High Speed Inputs: 2

High Speed Channels: X0, X1, X2, X3

24V DC Digital Outputs NPN Transistor type: Number of Outputs: 8 NPN transistor type In case of 0604 model: Outputs are 5 numbers

2 I/P Channels [Voltage I/P: 0-10V, 0-5V; Current I/P: 0-20mA, 4-20mA] \*Analog Inputs:

1 Output channels [Current 4 - 20 mA (Max load 500 ohm)] \*Analog outputs: \*These analog specifications are applicable to FL005-0808N0201L model only.

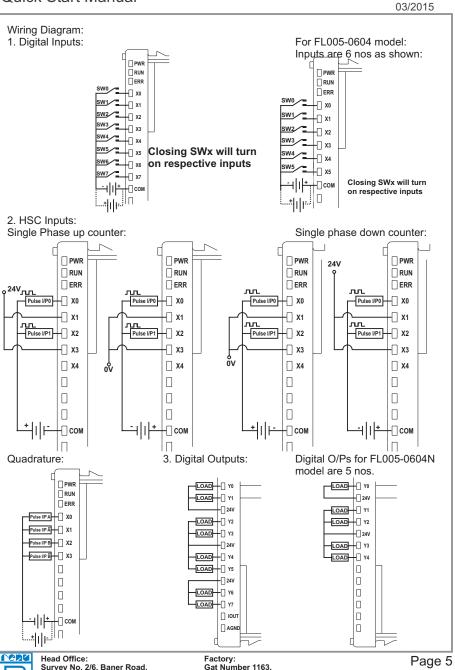
Note: If the input wiring runs through an area subject to high electro-magnetic interference, please use the Digital Filter Instruction on the field inputs.



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