

## Main Panel – MP (MODEL 03.054)

### Installation Instructions

This is a quick reference guide for the Main Panel(MP). For more detailed system information, please refer to the “Installation & Operation Manual” Doc. # 03.050.INST-B. Please note this instruction will not address the specific programming or operational procedures.

### 1. Main Panel (MP)

The Main Panel (Fig.1, Fig.2 and Fig.3) includes the MCC module (pos.2), PDC-L module (pos.3), FPC module (pos.4) and Power Supply (pos.5), which are assembled on the chassis (pos.1).

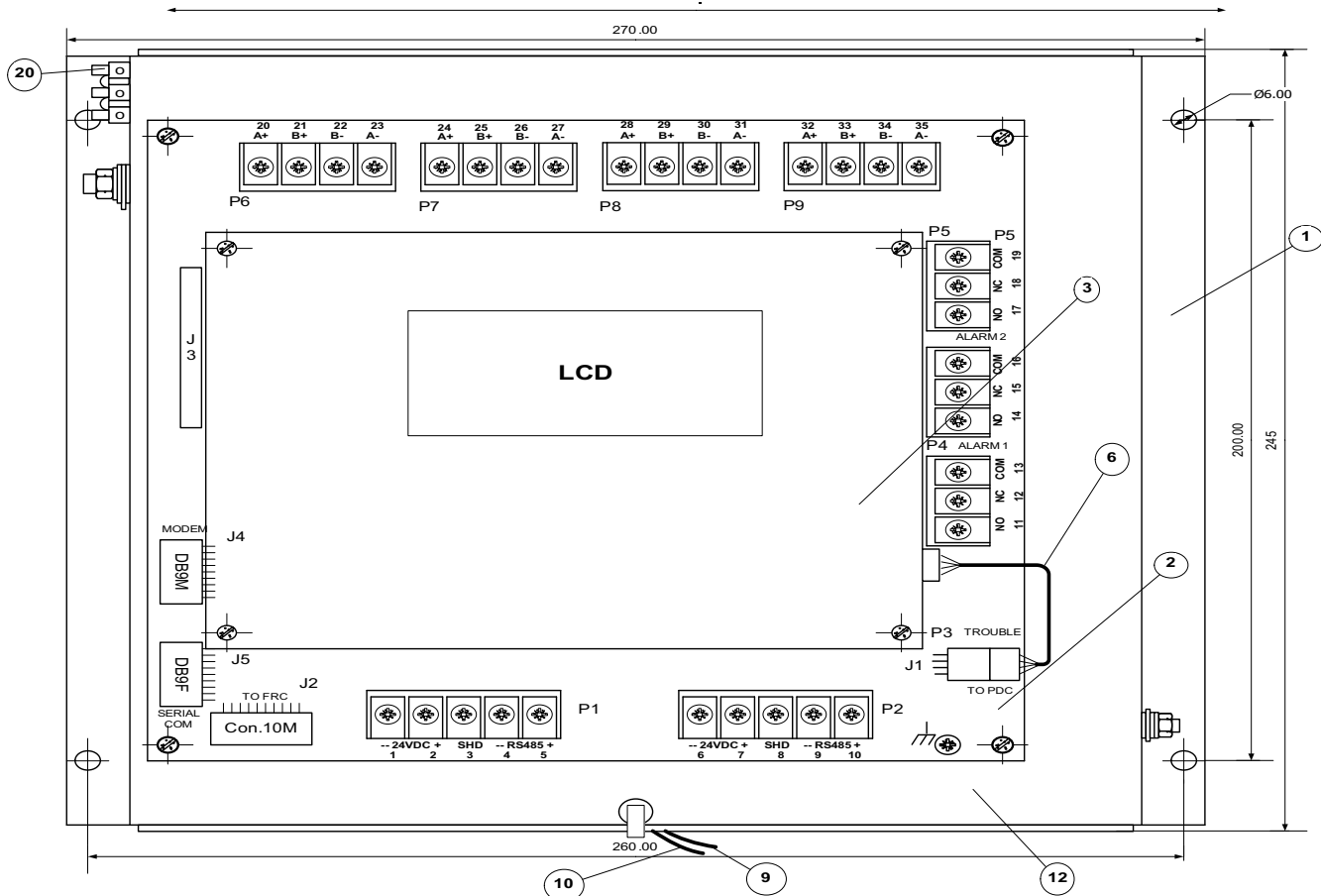


Fig.1 Main Panel (front image)



There are produced two version of Main Panel depending of powering voltage (look table below).

#	Abbreviature	Full name	Model	Description
1	MP-230	Main Panel	03.054-00	Main Panel , which includes chassis, MCC, PDC-UL, FPC and power supply RL980. This Device is powered by 230VAC
2	MP-120	Main Panel	03.054-01	Main Panel ,which includes chassis, MCC, PDC-UL, FPC and power supply RL980. This Device is powered by 120VAC

The MP-120, which is intended for powering by 120 VAC voltage, include the varistors block. This one (pos. 20) is connected to the Power Supply (pos.5) in accordance with Fig.4.

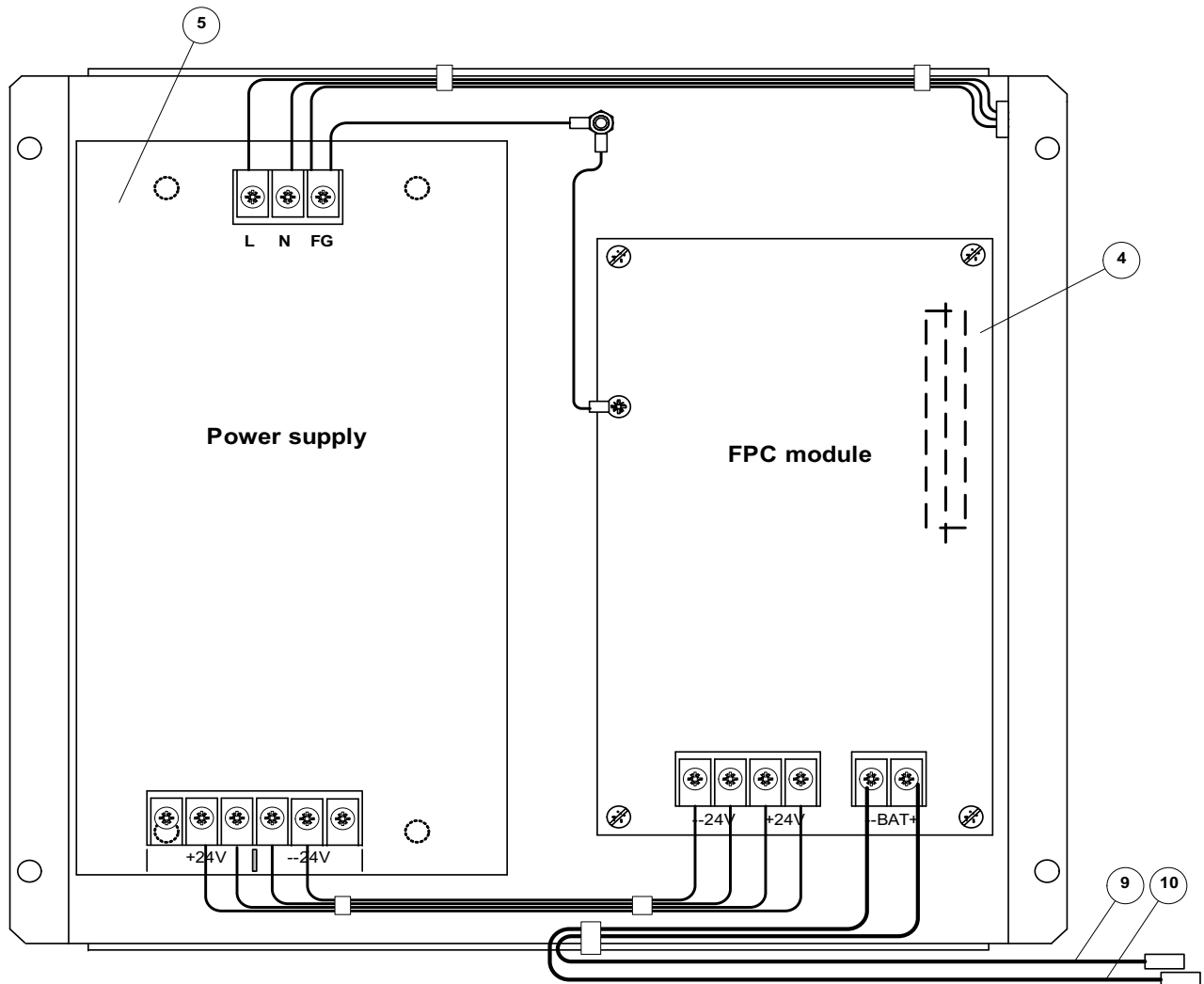


Fig.2 Main Panel (bottom image)

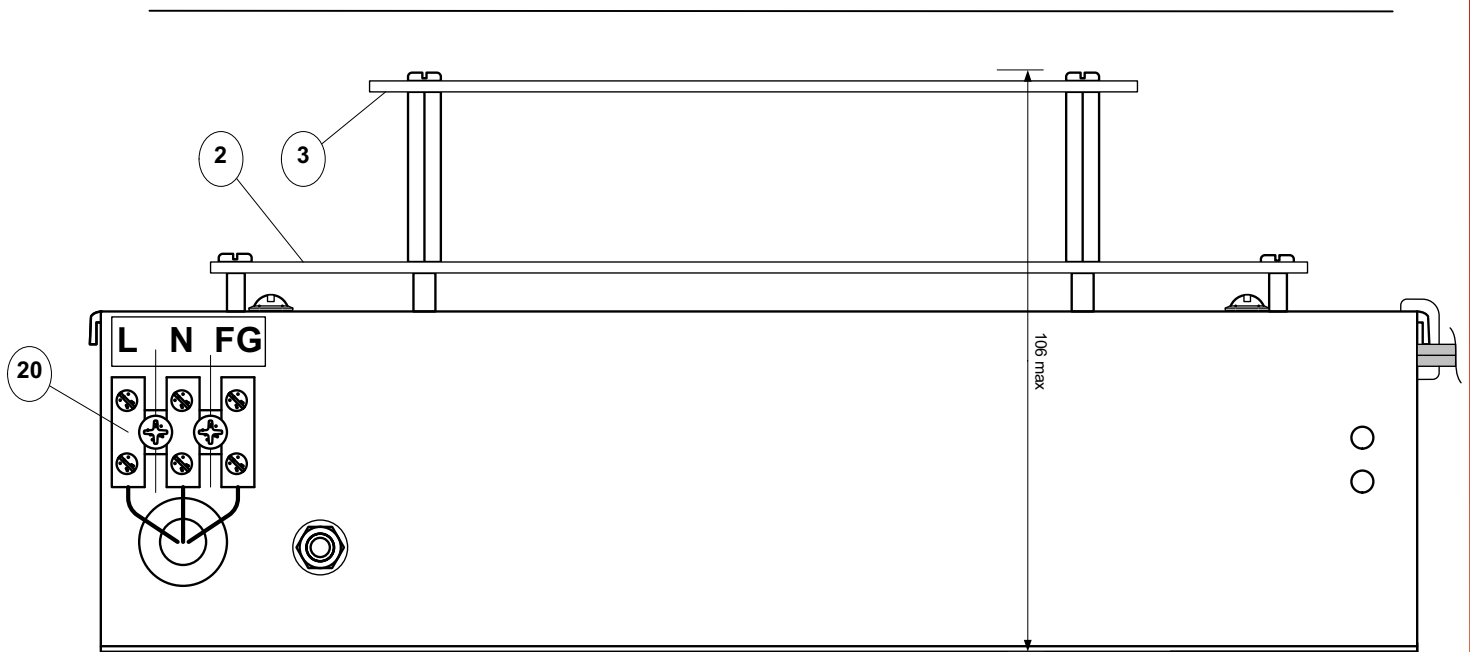


Fig.3 Main Panel (left side image)

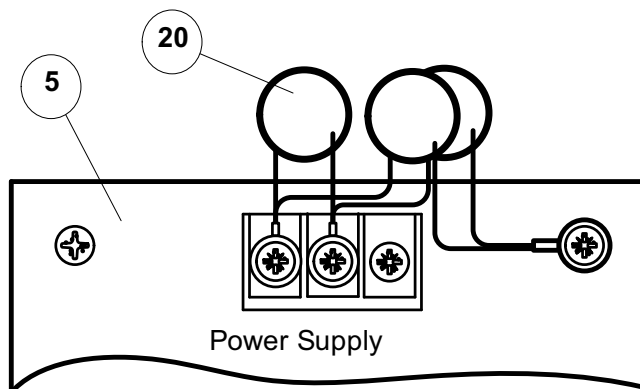


Fig. 4 The Varistors Block connection for CDS-120 (120VAC powering only)

The Device is mounted in the Main cabinet Enclosure (model # 03.057) and maybe mounted in another UL listed cabinet enclosure that is corresponded by the mounting and overall dimensions to this Device. The mounting and overall dimensions are shown on Fig.1 and Fig.3.

## 2. Main Panel specification

- |   |                           |
|---|---------------------------|
| 2.1 Nominal AC Input Voltage - 120 VAC/60 Hz for Main Panel | MP-120 (Model 03.054-01). |
| 230 VAC/50 Hz for Main Panel                                | MP-230 (Model 03.054-00)  |
| 2.2 Maximum Primary Current - 6.3A for Main Panel           | MP-120 (Model 03.054-01)  |
| 3.15A for Main Panel  | MP-230 (Model 03.054-00)  |
| 2.3 Output Current continuously - 7 A @ 24VDC.              |                           |



- 2.4 Multi Rate Smart Charger
  - Maximum Battery Charge Voltage 27.3VDC
  - Maximum Battery Charge Current 1.6 A
  - Maximum Chargeable Battery Capacity 40 Ah
- 2.5 Inputs & Outputs
  - Power and RS485 Network – two terminal blocks
  - Four class B/A NACs
  - Three relay (one Trouble and two Alarm) Dry Contact groups (form C)
  - Battery charging/discharging output/input
  - External modem connection (DB9M connector)
  - External serial communication module connection (DB9F connector)
- 2.6 Dimensions – 270x245x106 mm
- 2.7 Mounting dimensions – four holes Ø6 mm at distance 269x200 mm.

### 3. Ordering and Delivery Kit

3.1 The Device is delivered separated or consisting of panel FDX-5000 and mounted in the Main Cabinet Enclosure (model # 03.057).

3.2. At separated delivering the MP is delivered with mounted kit that includes

- Nuts M5 – 5 pcs
- Flat washer – 2 pcs
- Lock washer – 5 pcs
- Wire jumper for batteries -1 pcs (look sec.3.4)

3.3 There are six options of delivered MPs:

- MP-120-B1;
- MP-120-B2;
- MP-120-B3;
- MP-230-B1;
- MP-230-B2;
- MP-230-B3.

Where MP – the Device name, 120 or 230 – powering voltage (VAC), B1 or B2 or B3 – information about batteries that will be used in the system (B1 - 8/12 Ah, B2 – 15/20Ah, B3 –40 Ah).

3.4 The Device includes the different models of the battery wires corresponding to the Bx ordering code (look the table below)

MP ordering code	Used Batteries	Battery wire model	Wire jumper model
MP-XXX-B1	8/12 Ah	03.068-01, 03.068-02	03.068-03
MP-XXX-B2	15/20 Ah	03.067-01, 03.067-02	03.067-03
MP-XXX-B3	40/ Ah	03.066-01, 03.066-02	03.066-03

### 4. MP Installation in the Main Cabinet Enclosure

For MP installation in the Main Cabinet Enclosure (model # 03.057) it is necessary to perform the following action:

- Open the Cabinet Enclosure and put the MP device on the four stud bolts
- Secure the MP to these studs by the lock washers and nuts from mounting kit.
- The EGND wire (pos.14, Fig.3) secure to the bottom stud according to Fig.5.

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Connect power cable to the power terminals (pos.20, Fig.3) according to the stickers on the chassis  
For connection another modules and loops to MP refer to the Sec.2 of FDX-5000 Installation &+  
Operation Manual (Doc. # 03.050.INST)

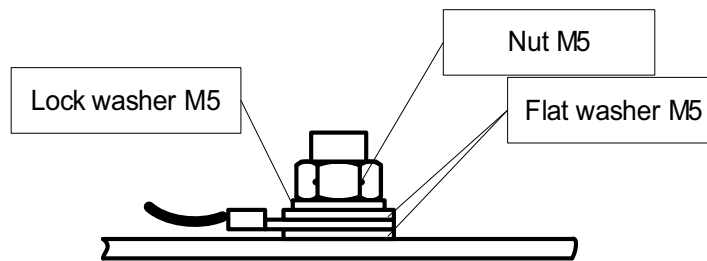


Fig.5 The Device EGND wire connection to the Cabinet bottom stud.

### **Warning!**

***Be sure that connected powering voltage range (120VAC or 230VAC) is conformed to the installed specify Device!!!***