

Serial Relay Module - SRM (MODEL 03.094)

Installation Instructions

This is a quick reference guide for the Serial Relay Module (SRM module). For more detailed system information, please refer to the “Installation & Operation Manual” Doc. # 03.050.INST and Doc. # 03.085.INST. Please note this instruction will not address the specific programming or operational procedures.

1 Serial Relay Module (SRM module)

The SRM module includes eight programmable relays (dry contact – form C). The SRM module image diagram is shown in the Fig.1. SRM is connected to the Host Panel or to the Local Panel by RS-485. Up to 8 SRM modules may be connected to the one Host or Local panel. SRM may be mounted in the Main Cabinet or a Separated Cabinet (SC). The AC2 Model YD9025 cabinet, which is produced by SAE Company (www.1sae.com), is used for remote SRM mounting.

2 SRM SPECIFICATIONS

The SRM module functions and parameters are shown in the table 1

The Programmable Relay number per module	8
The maximum Modules number within the Panel	8
The device address setting (within a Panel)	Yes
Communication to Local or Host Panel	RS485
Nominal Power voltage,V	24
Standby current, mA	30
Alarm Current, mA (25mA per each turned ON relay)	230
Additional alarm current per each ON relay, mA	25
Contact Rating at 30VDC (PF=0.4), A	10
Contact Rating at 250VAC, resistive load, A	10
Contact Rating at 250VAC, inductive (PF=0.4), A	3
SRM module dimensions, mm	180x14x20

3 SRM installing in the Main Cabinet

Hardware Required:

- One SRM module
- EGND wire
- EGND wire installation set (M3x10 screw, M3 nut, three M3 washers, M3 spring washer)

One SRM module of the Host Panel may be mounted in the main cabinet on the low layer according to the Fig. 2 if the SRM module (model 03.079) does not exist in specific Host Panel. Tie the SRM module to the bottom standoffs by plastic screws. EGND wire terminal connect to the closer grounding bolt.

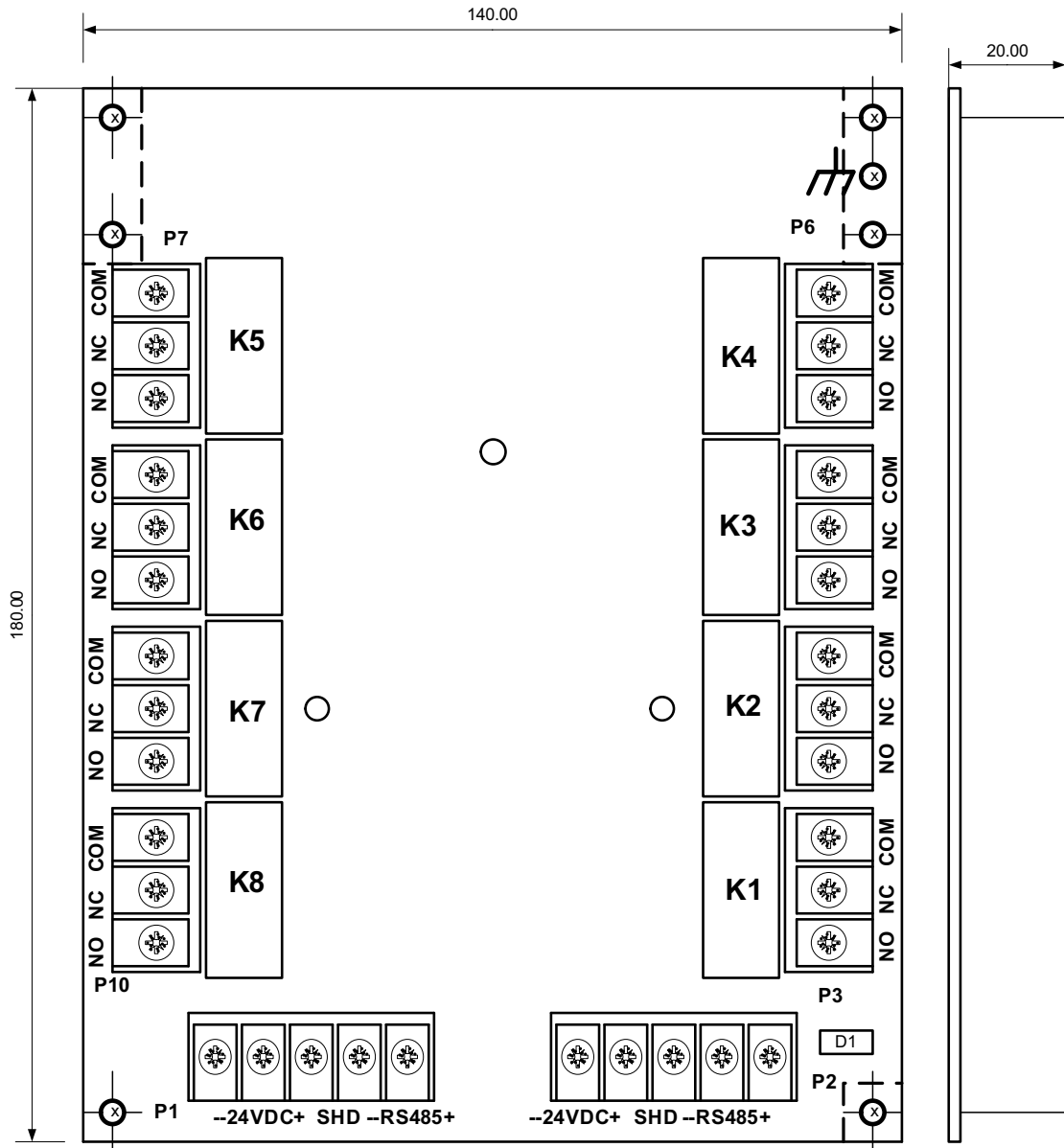


Fig. 1 SRM image diagram

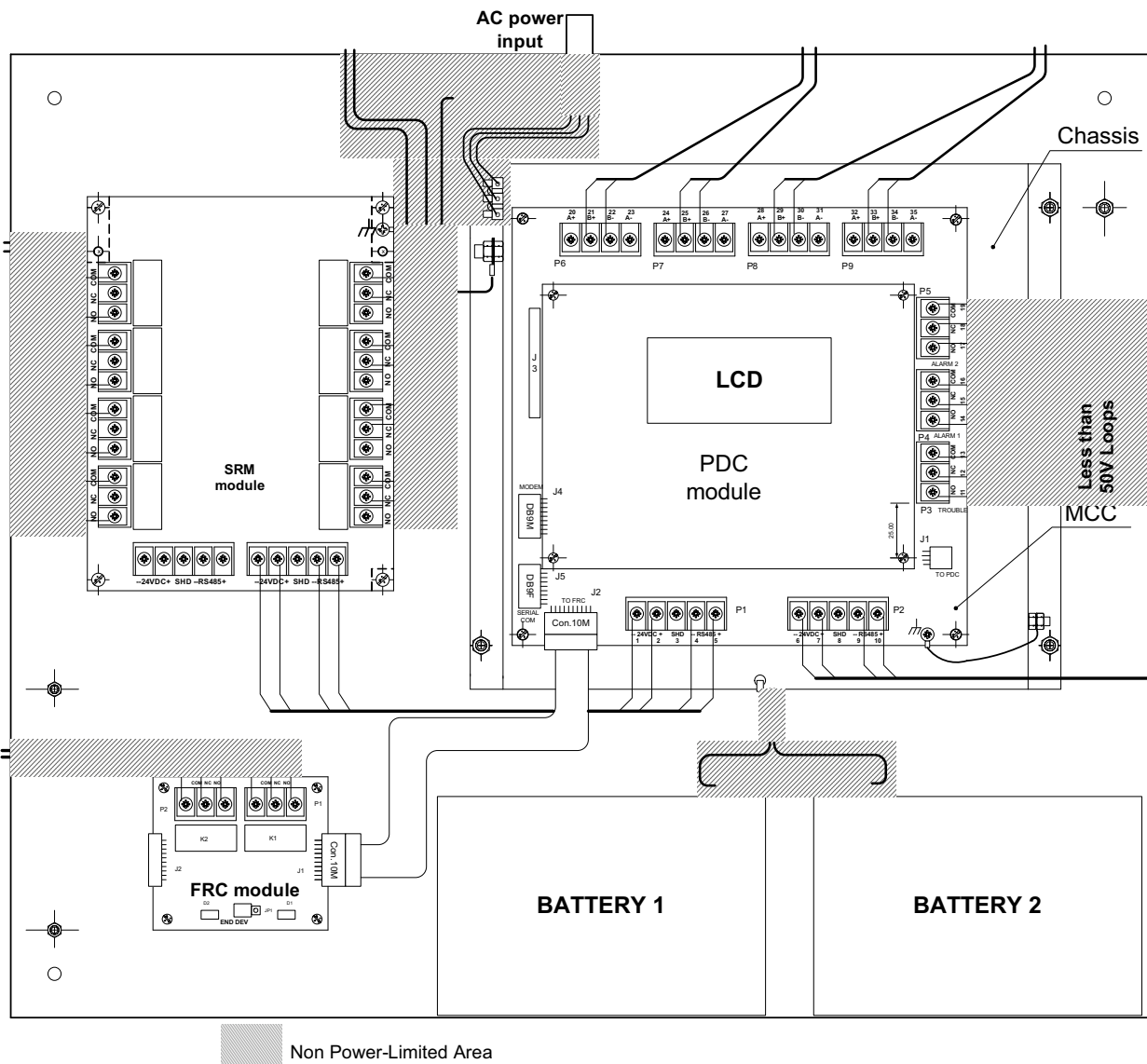


Fig. 2 SRM module mounting in the Main Cabinet (Host Panel).

The optional SRM module may be mounted in Main Cabinet of the Local Panel on upper layer, according to Fig 3. Connect EGDND wire to the module by its installation set. Remove the plastic screws of installed FLC module and tie it to Cabinet Bottom by stand-offs. The FLC module must be placed in the lower layer with shifting for easy access to the output terminal blocks of lower module. Before the upper module SRM mounting connect Power and Network wires to lower module FLC. EGDND wire terminal connect to the closer grounding bolt. Tie the optional SRM module to standoffs by plastic screws. EGDND wire terminal connect to the closer grounding bolt. The SRM may be mounted on the lower layer if FLC module doesn't exist in the configuration.

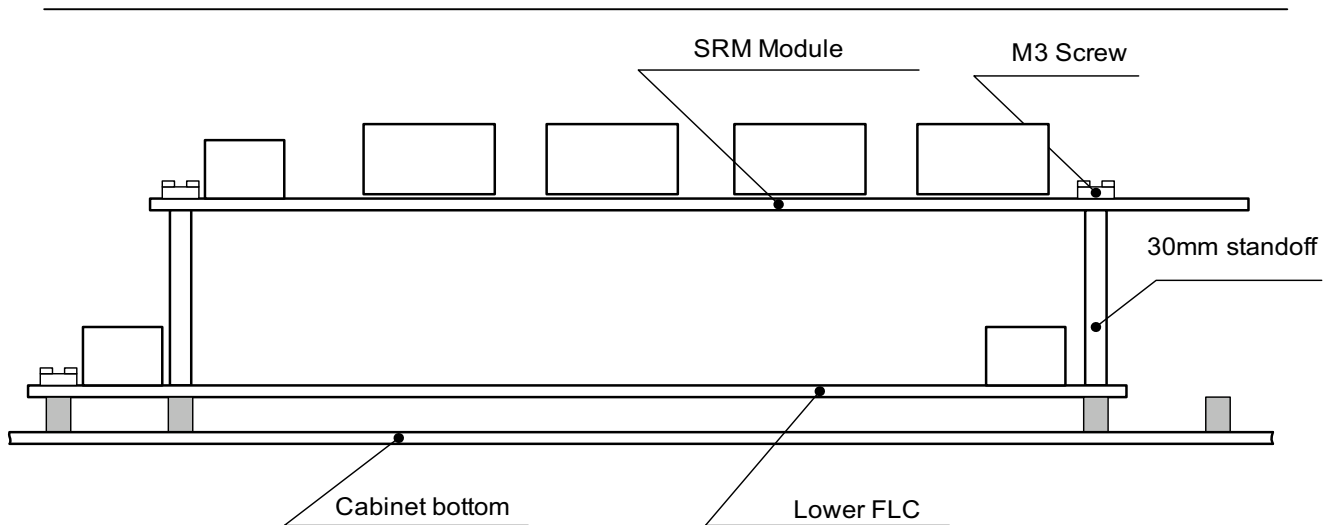


Fig.3. Optional SRM module mounting in the Main Cabinet (side view).

4. SRM installation in Separated Cabinet

Hardware Required:

- One SRM module
- Four plastic screws
- EGND wire
- EGND wire installation set (M3x10 screw, M3 nut, three M3 washers, M3 spring washer)
- Separated Cabinet – AC2 Model YD9025 (SAE Company www.1sae.com)

The remote SRM module is mounted in the Separated Cabinet according Fig.4. Connect EGND wire to module by its installation set. Place module on the bottom plate stand-offs and tie it to stand-offs by plastic screws. Connect the EGND wire to the grounding bolt.

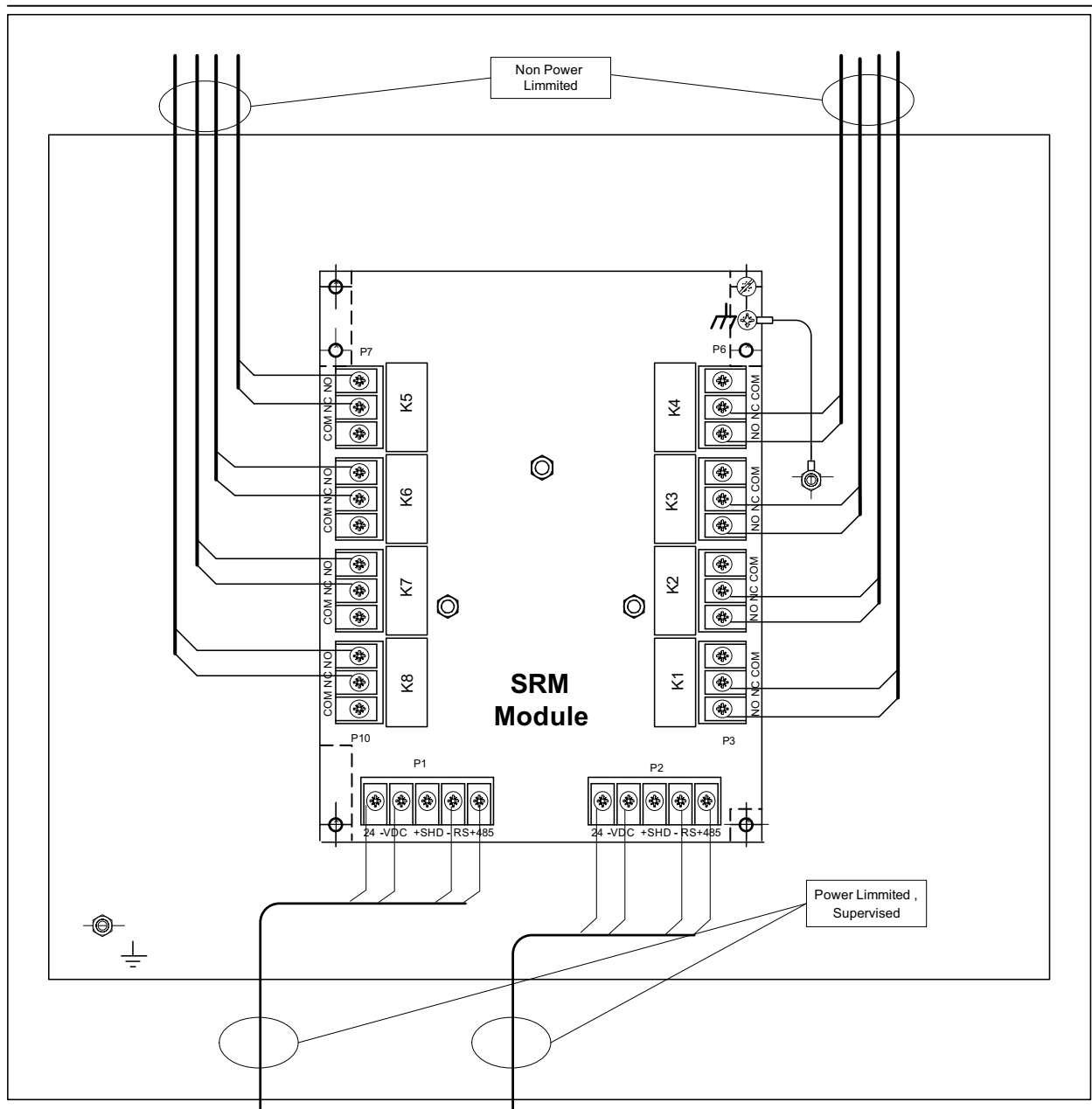


Fig. 4. SRM installation in the Separated Cabinet AC2 Model YD9025

5. SRM connection to RS-485 network

The SRM module should be connected to power and network according Fig.5. The like contacts of P1 and P2 are shorted therefore Control Panel or previous devices may be connected to SRM via P2 and next device may be connected via P1.



All wires must conform to local codes, ordinances and regulations.

CAUTION!!!

If this module will be connected to an existing operation system, inform operator and local authority that the system will be temporary out of service. Disconnect power to control panel before installing module

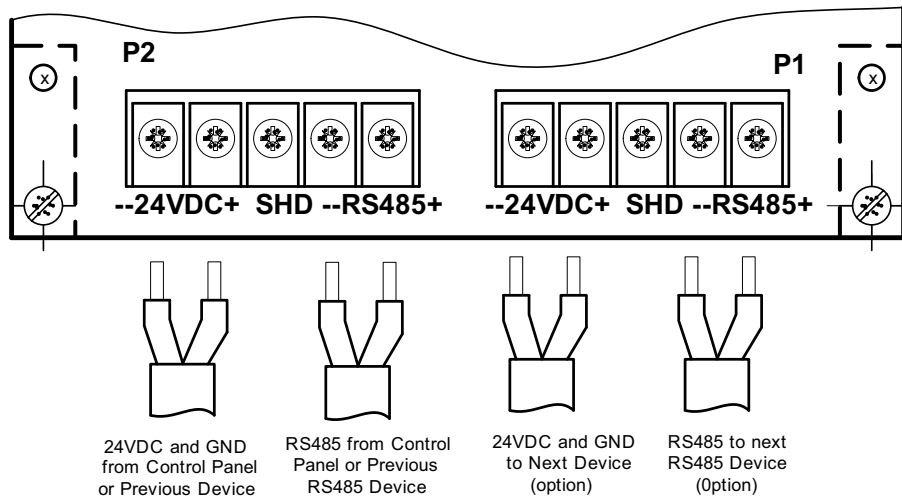


Fig. 5 Power and network wiring.