

FIRESENSE COMMUNICATION ADAPTER - FCA (MODEL 03.032)

Installation & Operation Manual

This is a quick reference guide for the FireSense Communication Adapter (FCA module). The FCA module is suitable for connection the FDX5000 Panel to RS232 or RS485 external nets. For detailed information of FDX5000 Panel, please refer to the "Installation & Operation Manual" Doc. # 03.050.INST-B.

1. GENERAL DESCRIPTION

This instruction applies to the FCA module, which provides the insulating FDX5000 Panel connection to the RS232 or RS485 communication. The FCA module (Fig.1) is placed in the separated plastic enclosure. On a long side of the module are placed Power ON/OFF switch, DB9M connector for connection to the FDX-5000 Panel, DB9F connector for PC connection via its Com Port and two screws Terminal Blocks for connection to RS485 loop. The five signal LEDs are placed on a front side.

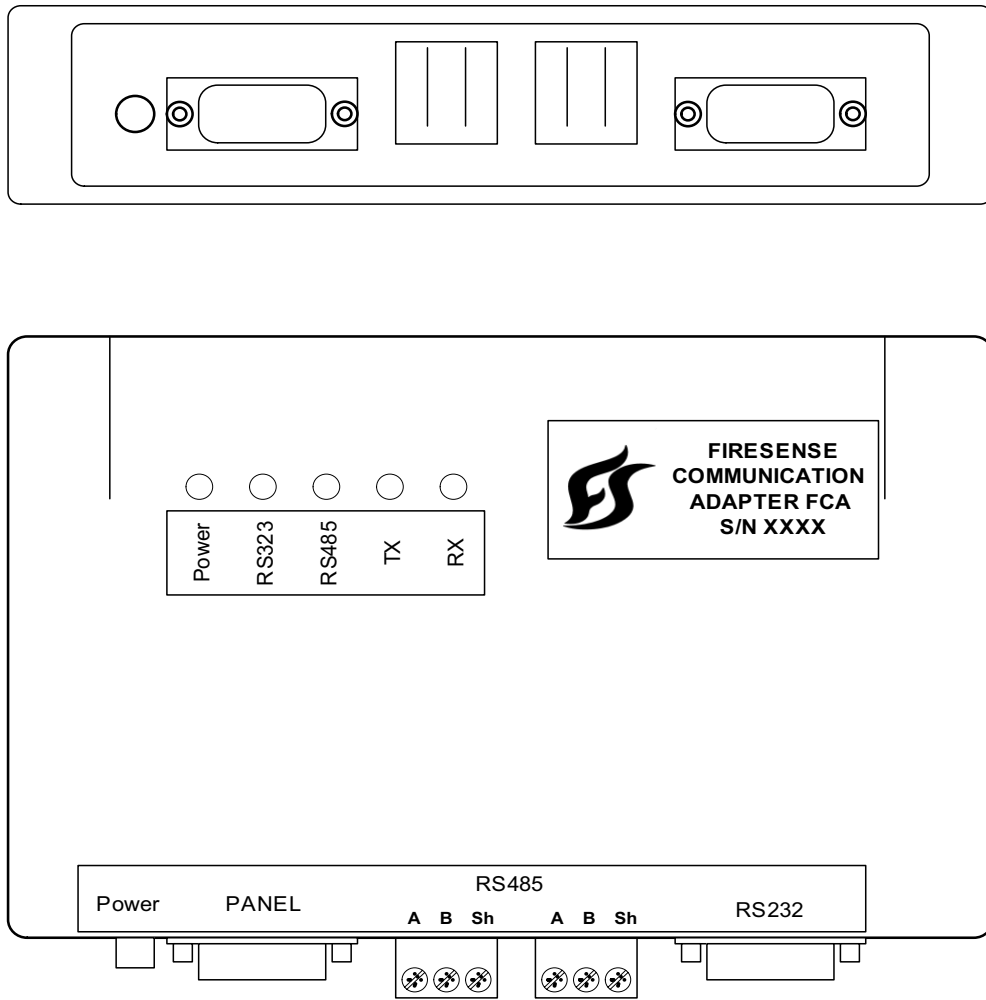


Fig. 1. FCA module diagram

2. FCA Spec

1. Module dimensions - 155x110x33 mm
2. Connection to Panel and PC - by standard RS232 cable
3. Maximum RS232 cable length – 10 m
4. Wire size for RS485 loop – (16-22)AWG
5. Maximum one wire length of RS485 loop from Host to Local Panel - 400 m.
6. Supply voltage – 24VDC
7. Maximum current consumption - 50 mA
8. Input/Output isolation voltage, not more than – 500 VDC (1 sec)

3. FCA Installation & Operation

FCA module is placed outside of the Main Cabinet Enclosure and connected to the FDX5000 Common Device by standard RS232 cable (without cross). FCA is supplied by 24VDC from the Panel FDX-5000. Simultaneously FCA provides only either interface type RS232 or RS485, which is programmed from FDX-5000 Panel (refer to 4.2.2.7 section). Two LED are illuminated one of two chosen mode. The RS232 mode is used for Panel to PC communication. Corresponded connection diagram is shown on Fig.2 . RS485 mode is used for connection to multipanel communication net that is shown on Fig.3.

4. FDX-5000 programming of communication options

4.1 For programming procedures details refer to the Sec. 4 of the “Installation & Operation Manual” Doc. # 03.050.INST-B. The Communication options are programmed in the “Peripheral Config”. In the Main Menu choose “2. System Options” and after choose “7. Peripheral Config”.

4.2 This Menu allows you to choose external communication features.

Super Comm: functions include the following options.

1. Disabled – Super Comm. OFF
2. Printer - for printer connection via FCA module
3. Direct - for PC or Laptop connection via FCA module
4. Network - for connection via FCA module to the RS485 Multipanel Network
5. Modem - for modem connection without FCA.

Toggle to change the point's value by pressing the ← **LEFT** or the → **RIGHT** arrow keys.

4.3 The FireSense Software “SuperProgram” must be installed in the PC for the performance with the FDX-5000 Panel. The DIRECT feature chosen allows a performing in the one of two modes. The mode “Listening” is chosen as default. For coming to the Panel Configuration mode from PC make Reset, come to Program Menu. In the Main Menu choose “8. PC Communication”. After the Panel Configuration finishing reset the Panel and it will come back to the “Listening” mode.

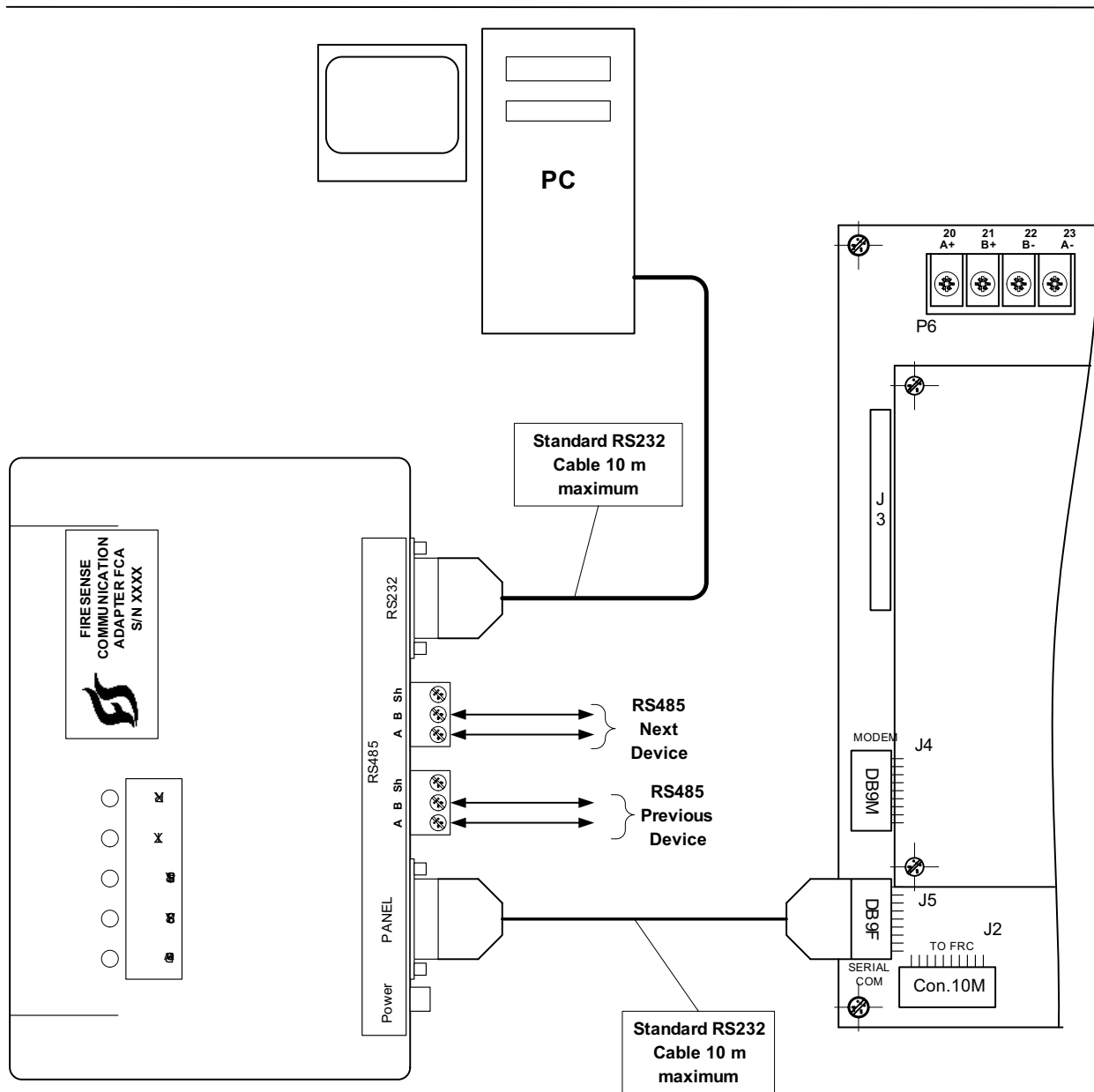


Fig.2 FCA connection diagram