

HOST COMMUNICATION ADAPTER - HCA (MODEL 03.101)

Installation Instruction

This is a quick reference guide for the Host Communication Adapter (HCA 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. GENERAL DESCRIPTION

The Host Communication Adapter (HCA) module (model # 03.101) provides the Host Panels (FDX5000H) isolated connection to the RS485 Multipanel Net and to RS232 interface. The 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 FDX5000H Panel, DB9F connector for PC connection via its Com Port and three screws Terminal Blocks for connection to RS485 loop. The six signal LEDs are placed on a front side.

2. HCA function and specification

The HCA module implements the following function:

- Connection to Multipanel Net in Class A and B.
- Polling of the Local Panels
- The one defect recognizing of the RS485 line (short or disconnection)
- The HCA specification
- Module dimensions - 155x110x33 mm
- Connection to Panel and PC - by standard RS232 cable
- Wire size for RS485 loop – (16-22)AWG
- Supply voltage – 24VDC
- Maximum current consumption - 50 mA
- Input/Output Isolation Level - Hipot 1250 VAC for 1 sec.
- Maximum one wire (AWG18) length of RS485 loop from Host to Local Panel - 1200m.
- Transient protection of RS485 inputs (pulse 2400 V/ 80 us according to UL-864, sec 71)

3. HCA Installation & Operation

HCA modules are connected to the Host Panel (FDX5000H). HCA module is placed outside of the Main Cabinet Enclosure and connected to the Common Device of the Panel by standard RS232 cable (without cross) (look Fig. 2-22). The PC is connected to the HCA, which is belonged to the Host Panel only. HCA is supplied by 24VDC from the Host Panel. Simultaneously HCA provides only either interface type RS232 or RS485.

For programming the HCA module refer to the Sec. 3 of the "MNP 5000" manual Doc.# 03.085.INST.

Attention: HCA module *only with Power Switch OFF* position may be connected to the powered Panel

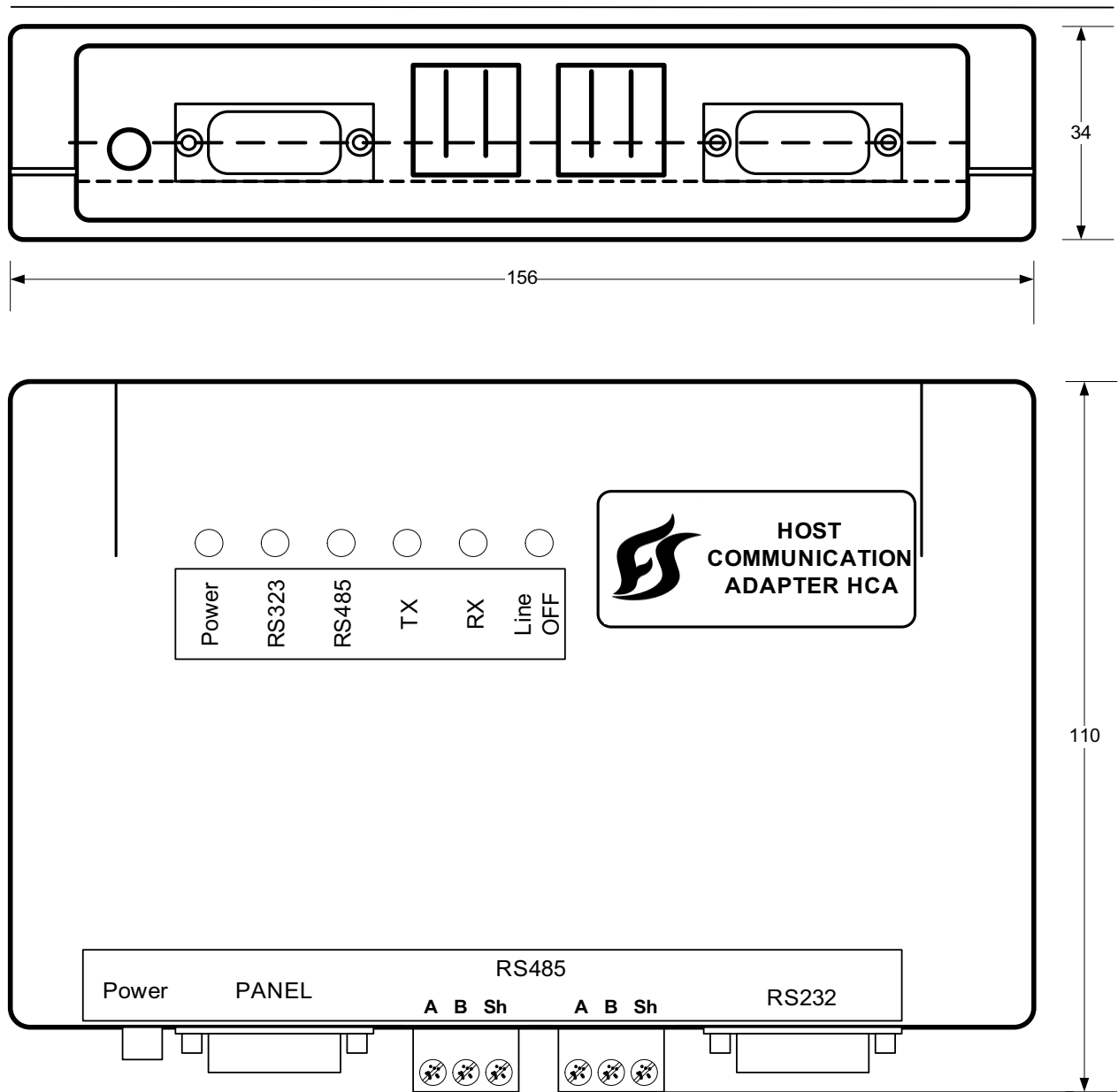


Fig. 1. HCA module diagram

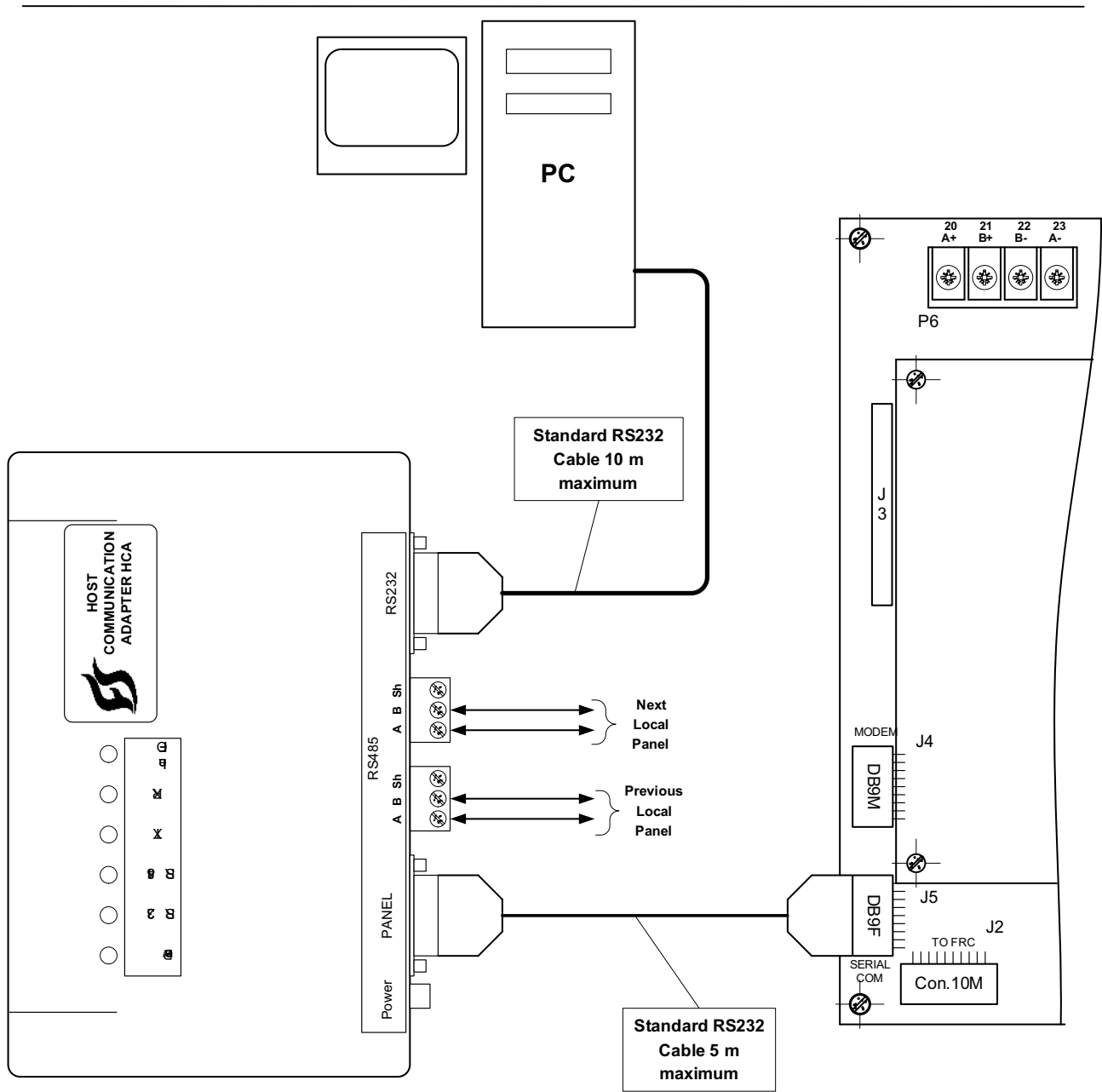


Fig.2 HCA connection diagram