

## **LOCAL COMMUNICATION ADAPTER - LCA (MODEL 03.106)**

### **Installation Instruction**

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

### **1. GENERAL DESCRIPTION**

The Local Communication Adapter (LCA) module (model # 03.106) provides the Local Panels (FDX5000) 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 FDX5000 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 LCA construction and Specification**

The LCA module provides the insulating FDX5000 Panels connection to RS485 communication Net

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. LCA Installation & Operation**

LCA modules are connected to the Host Panel (FDX5000). LCA 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). The PC is connected to the LCA, which is belonged to the specific Local Panel only. LCA is supplied by 24VDC from the Lost Panel. Simultaneously LCA provides only either interface type RS232 or RS485.

For programming the LCA module refer to the Sec. 4 of the “Installation & Operation Manual” Doc. # 03.050.INST.

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

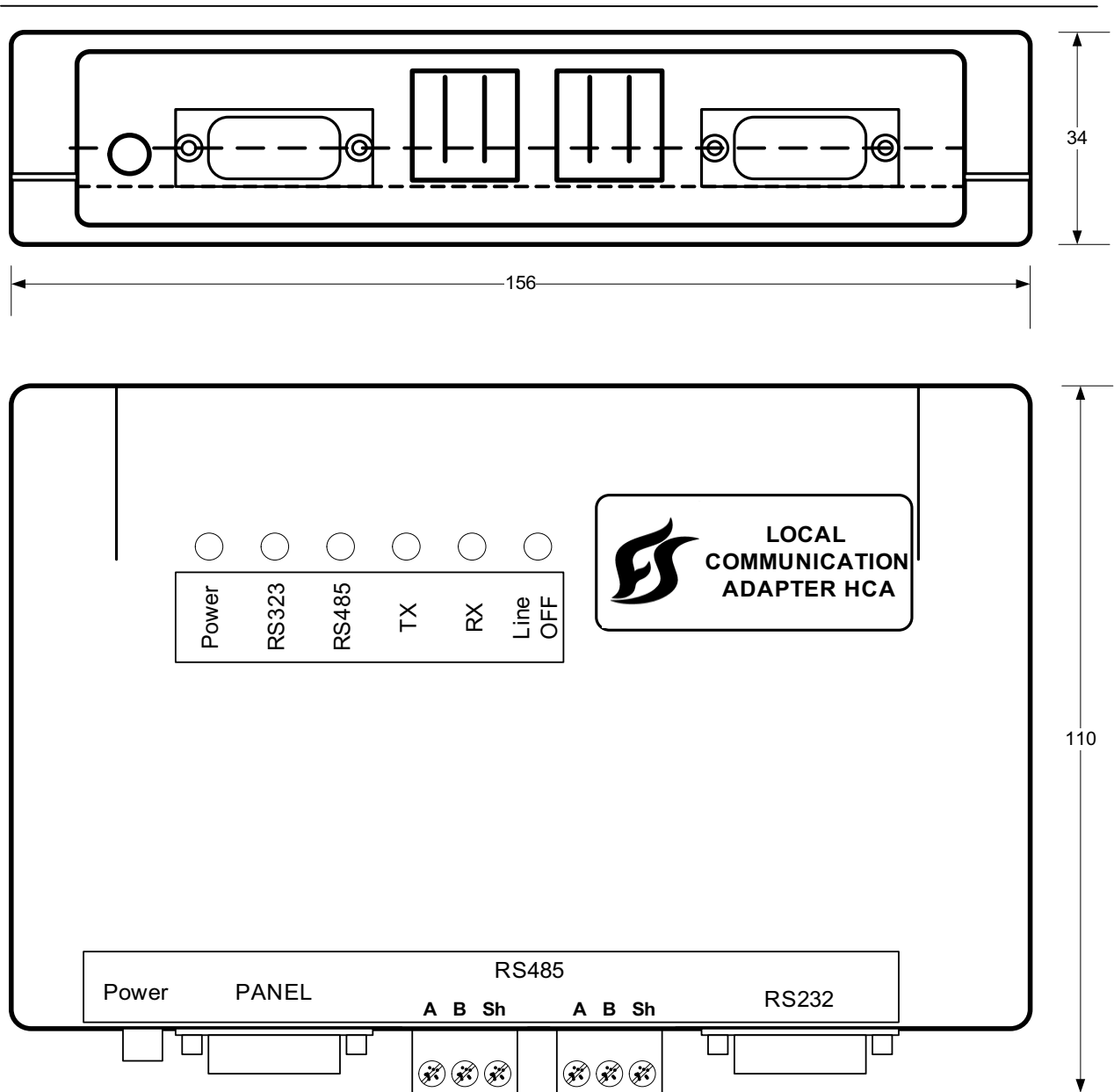


Fig. 1. LCA module diagram

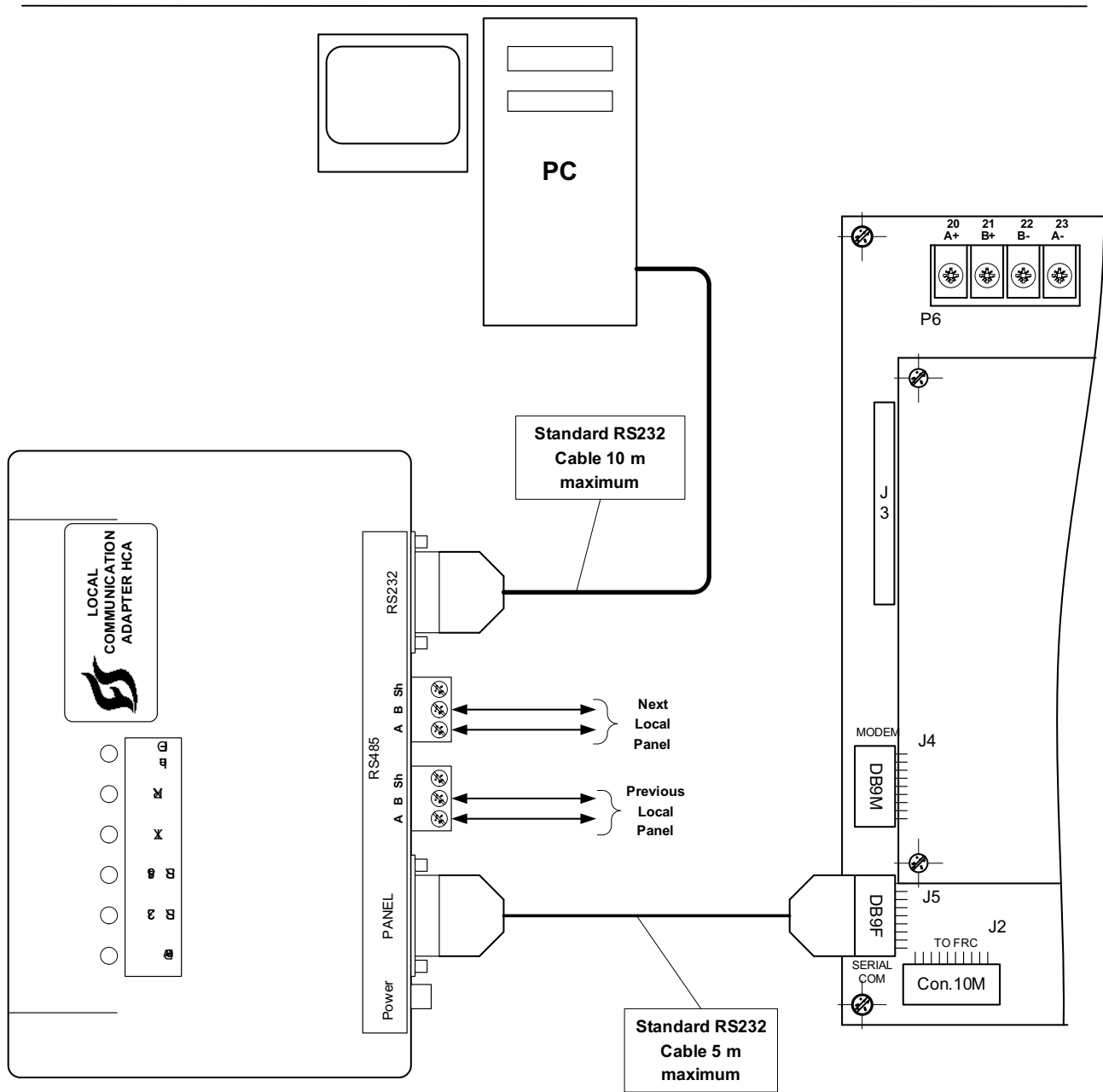


Fig.2 LCA connection diagram