

MPI Cable ST03-A2B-MPI21-PFE Installation Guide

Thank you for purchasing Pro-face's MPI Cable (ST03-A2B-MPI21-PFE). This cable is designed to establish the communication between ST403 and AGP3302B* Touch panel serial port and a PLC by using MPI

1 Essential Safety Precautions

2 !!WARNINGS!!

- Attach the connector marked with "PLC side" to the port of the PLC. Otherwise a serious short cut will happen to the PLC port, which can damage the port.
- To avoid an electric shock, prior to connecting this unit to the display's serial interface, confirm that the display's power is completely turned OFF, via a breaker, or similar unit.
- Do not modify this unit. Doing so may cause a fire or an electric shock.
- Do not use this unit in an environment where flammable gases are present, since operating this unit may cause an explosion.

General Safety Precautions

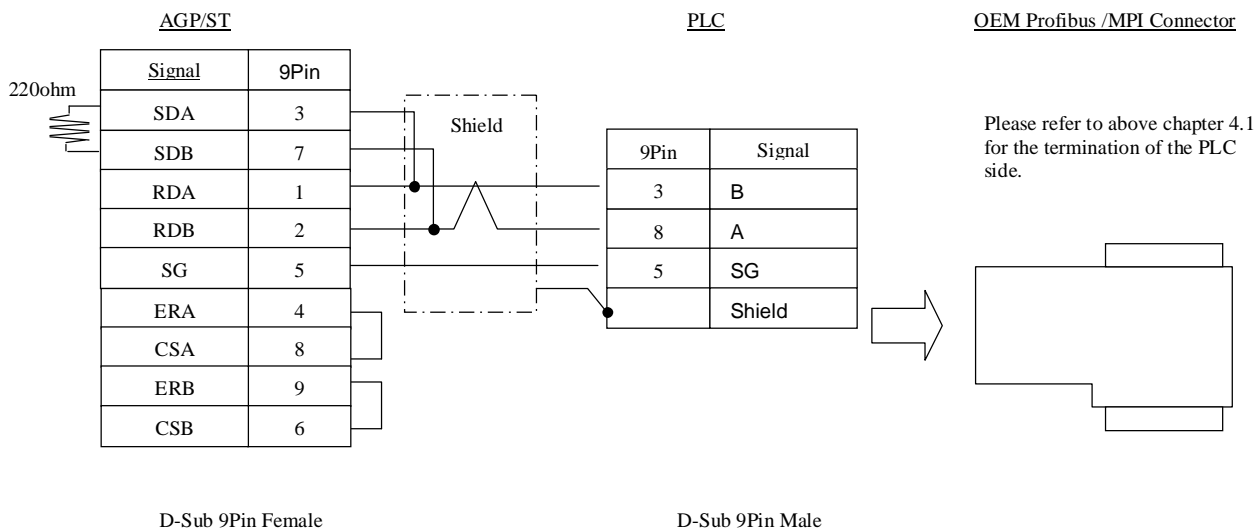
- Do not allow water, liquids, metal or charged particles to enter inside the connectors of this cable, since they can cause either malfunction or an electrical shock.
- Do not use or store this cable in direct sunlight, or in excessively dusty or dirty environments.
- Do not store or use this cable where strong jolting or excessive vibration can occur.
- Do not store or use this unit where chemicals (such as organic solvents, etc.) and acids can evaporate, or where chemicals and acids are present in the air.

3 Package contents

Please check that the following items are included in your package.

- MPI cable (ST03-A2B-MPI21-PFE)
- Installation Guide (this guide)

4 Cable Diagram



4.1 Termination

Inside the Profibus/MPI connector a 220Ω termination resistor is provided with a 390Ω pull up resistor and a 390Ω pull down resistor conform to the Profibus specifications [1].

A switch is provided to switch the termination on or off. In order to make a stable communication it is recommended to switch the termination resistor on.

5 Attachable Models

The following AGP/ST Series units are connectable with the MPI cable. (As October, 2005)

ST400 Series	AGP3000 Series
ST403-AG41-24V	AGP3302-B1-D24

*For future Touch panels which might be attachable, please refer to the corresponding chapter in the latest PLC Connection Manual of the GP PRO EX Software.

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6 Supported Baud Rates

Supported Baud Rates / Line Rates as tested

9.6kbps	3.5m	1:1 connection
19.2kbps	3.5m	1:1 connection
45.45kbps	3.5m	1:1 connection
93.75kbps	3.5m	1:1 connection
187.5kbps	3.5m	1:1 connection

The cable is only recommended for 1:1 connection (1 AGP/ST and 1 PLC). In case of 1 : N or N: 1 Networks please refer to the corresponding chapter of the PLC Connection Manual of the GPPRO EX Software.



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Note:
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