

# MPI Cable GP3000-MPI21-PFE Installation Guide

Thank you for purchasing Pro-face's MPI Cable (GP3000-MPI21-PFE). This cable is designed to establish the communication between the AGP3000 Touch panel Series\* 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

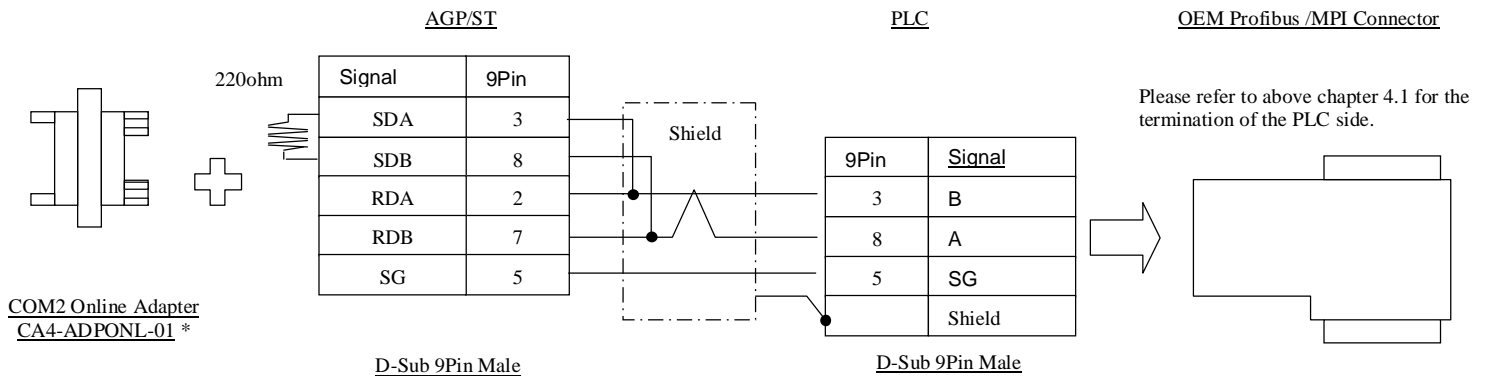
- Do not allow water, liquids, metal or charged particles to enter inside the connectors of this cable, since they can cause either malfunction or an electrical shock.
- Do not use or store this cable in direct sunlight, or in excessively dusty or dirty environments.
- Do not store or use this cable 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 (GP3000-MPI21-PFE)
- Installation Guide (this guide)
- COM2 Online adapter (CA4-ADPONL-01)

## 4 Cable Diagram



\* Note: Please make sure to attach the enclosed adapter, COM2 Online Adapter (CA4-ADPONL-01) for stable communication.

## 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

For attachable Touch Panel models, please refer to the corresponding chapter in the latest PLC Connection Manual of the GPPRO Ex Software.

For PLC models attachable, please refer to the corresponding chapter in the PLC Connection Manual of the GPPRO Ex Software.

## 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
500kbps	3.5m	1:1 connection
1500kbps	3.5m	1:1 connection
3000kbps	3.5m	1:1 connection
6000kbps	3.5m	1:1 connection
12000kbps	3.5m	1:1 connection

The cable is only recommended for 1:1 connection ( 1 AGP 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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