

MAGX²

P33 Profibus Installation



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1. Introduction

This document provides the mechanical installation and setup procedure between the Profibus module and MAGX2 transmitter.

All MAGX2 devices operating firmware version 21.37 and above are compatible for this upgrade if required.

1.1 *Design of the Profibus module*

The Profibus module is a device, designed to communicate with MAGX2 devices and your local Profibus network. There is one way to use this device: as a slave, to which the master connects.

The Profibus module is giving out measures values of the meter. It cannot be used for meter settings.

The Profibus module is galvanically isolated from the flowmeter.

DPV0 functionality is implemented.

1.2 *System requirements*

The hardware and software requirements of your computer must be at least equal or better than those listed below to ensure that the software works correctly.

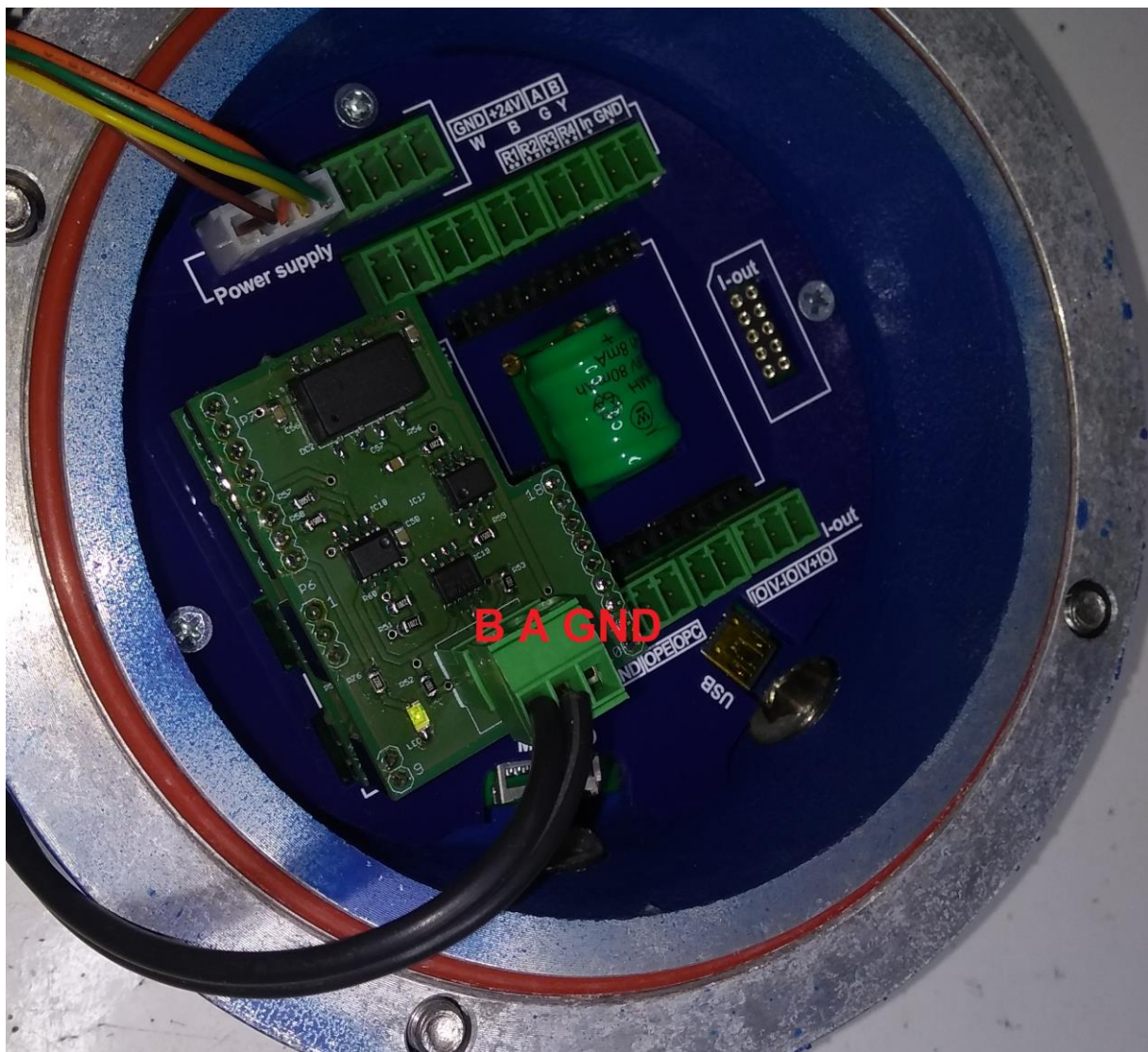
- MAGX2 Flowmeter with Profibus module.
- Profibus master device (PLC or PC with Profibus SW)

2. Installation information

Installation of the Profibus module can be only performed by qualified staff or a person who has safety requirements.

2.1 Profibus module installation

Install Profibus module according to picture bellow.

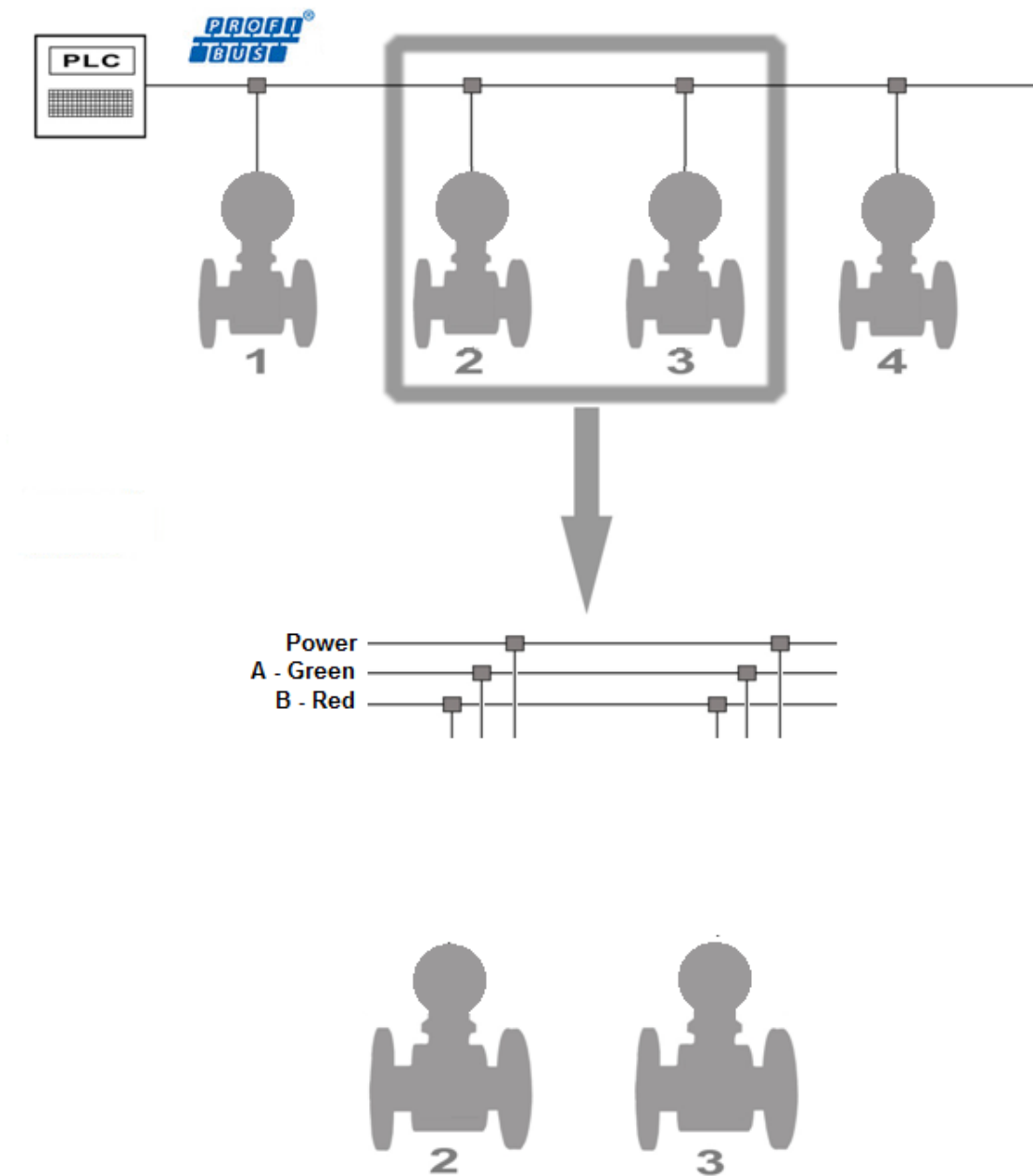


Picture 1. Profibus module location

2.3 System connection

Each individual meter needs to be powered, then they can be interconnected into Profibus network. Polarity of the connection poles is as follows:

The number of simultaneously connected units is dependent on Master.



2.5 Configuration of MODBUS communication protocol

As internal communication protocol of MAGX2 is MODBUS RTU, the Profibus module is translating Profibus messages into MODBUS and vice-versa, therefore before normal use of the Profibus module you must set up the MODBUS communication protocol in

MAGX2 transmitter. MODBUS communication protocol is in the User menu. You can use MAGX2 software or another one with MODBUS RTU communication protocol for set up. You can also set it up manually via the touch buttons.

Necessary settings of MODBUS communication protocol

ID: 1

Baudrate, Databits, Stopbit, Parity does not matter.



Picture 4. MODBUS communication protocol settings

Necessary settings of Profibus communication protocol on Master side:

ID: 7

Identifier 0x095F

3 Using Profibus module

Volume flow [m³/hr]
Total Volume [m³/hr]
AuxVolume [m³/hr]
Total+ Volume [m³/hr]
Total- Volume [m³/hr]
Sensor temperature [°C]
External temperature [°C]
External pressure [bar]

Any other field combination is possible upon request.

4 Appendix

4.1 Warranty

The warranty conditions are covered by Arkon Flow Systems, s.r.o. Terms & Conditions of Sale and by Arkon Flow Systems, s.r.o Return Regulations and Warranty Conditions. The Arkon Flow Systems, s.r.o Terms & Conditions of Sale and the Arkon Flow Systems, s.r.o Return Regulations and Warranty Conditions are an integral part of the Resellers contract and of any Order Confirmation. Please see your Resellers contract or www.arkon.co.uk; Support section. The Warranty sheet is part of the Packing note of any new goods sent. For the claim or return procedure, please consult our web site www.arkon.co.uk or call the Arkon Flow Systems, s.r.o sales office.

4.2 Contact



Technical support: support@arkon.co.uk
Skype: support.arkon

Sales office: office@arkon.co.uk

Office hours:
8:30 – 18:00 (GMT+1)

Direct technical support:
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