

Data sheet

Profibus Adapter *pb_adp* for B / C200

Doc.-No. : D2MF160 100

Rev. : 05/12



Messtechnik GmbH & Co. KG

The Profibus Adapter *pb_adp* for B / C200 allows the reading of measuring values from B200 digital gauges and C200 column gauges via Profibus.

The Profibus Master can call control commands inside B200 / C200.

By the error LED of the Profibus Adapter *pb_adp* Profibus errors are shown.

When the error LED is on (=error), then the Profibus Adapter *pb_adp* was not yet initialized by the Profibus-Master.



Art.-No. F160 100

Technical data

Mechanical characteristics

Case	Plastic
Dimension W x D x H	66 x 66 x 28 mm

Electrical characteristics

Power supply by <i>IMB-sm1</i>	+5V
Power consumption	220mA
Interface	Profibus (galvanically isolated)

Environmental conditions

Working temperature range	0...45°C
Storage temperature range	-30...+80°C

Connection of Profibus Adapter *pb_adp*

- Connect cable of Profibus Adapter *pb_adp* to RS232-connector of B200 / C200
- Connect Profibus connector to 9-pol. SUB/D female connector of Profibus Adapter *pb_adp*
- Switch power supply of B200 / C200 on



GSD-File

- The GSD-File **UGIC3218.GSD** is stored on **IBR Support CD** in directory **\\MB_PB**
- Vendor = "Deutschmann Automation GmbH"
- Model = "UNIGATE IC - Profibus"
- Module = "8 Byte I/O (konsistent)"

Data protocol

The Scripts requests permanently the values of the B200 / C200 and outputs the received values as 8 Byte ASCII-String on the Profibus :

Measurement Value	+23.2344
Out of Range	000000E1
Timeout	000000E2

Over the ProfiBus a 4 byte command can sent to C200 / B200 :

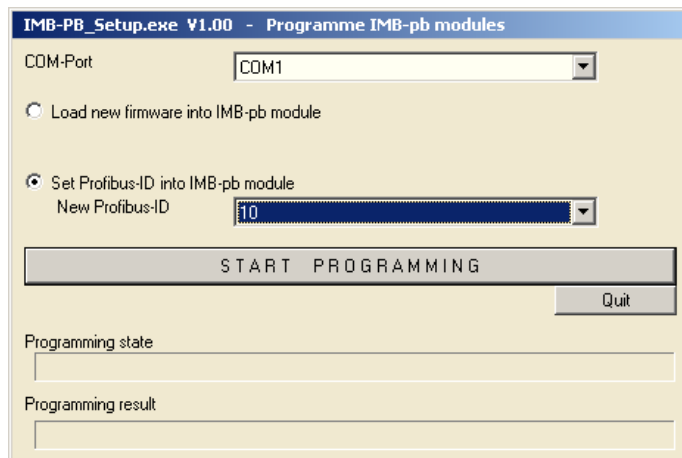
Command	Bit 31	= Trigger flag (by toggling a new command is sent to B200 / C200)
	Bit 30...15	= Reserved
	Bit 14	= Command to "simulate Ft3"
	Bit 13	= Command to "simulate Ft2"
	Bit 12	= Command to "simulate Ft1"
	Bit 11	= Reserved
	Bit 10	= Reserved
	Bit 9	= Command to "start/stop dyn-mea"
	Bit 8	= Command to "calibrate"
	Bit 7	= Command to "call gauge C8"
	Bit 6	= Command to "call gauge C7"
	Bit 5	= Command to "call gauge C6"
	Bit 4	= Command to "call gauge C5"
	Bit 3	= Command to "call gauge C4"
	Bit 2	= Command to "call gauge C3"
	Bit 1	= Command to "call gauge C2"
	Bit 0	= Command to "call gauge C1"

Programming of Profibus-Address

- For programming connect the cable of Profibus Adapter *pb_adp* to connector with Power-Supply of Programming cable :

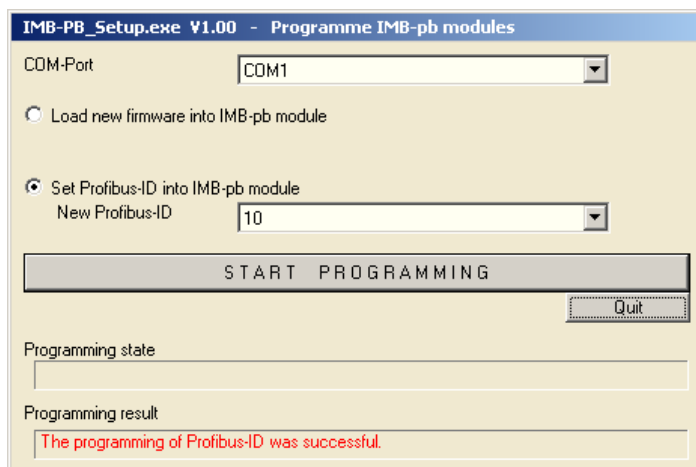


- Connect the other side of programming cable to PC-COM-Port.
- Start of die Software „IMB-PB_Setup.EXE“ from CD in delivery. (An installation of the software is not necessary.)
- Select the COM-Port and the Profibus address (Profibus-ID) :



Note :
If the Addr. 126 is programmed, then the Profibus Master can set the address of IMB-pb.

- Press button „Start Programming“ and follow the instructions :



Note : Usage of a Siemens S7 with CPU-Series 300 :

- In I/O-Manager only Addresses < 256 can be read / written.
- On Addresses >= 256 a data block must be created, which is read / written over **PED / PAD** commands.
- On communication with Siemens PLC and Data packets > 4 Byte the communication must be occur via **SFC14 & SFC15**.