

IMBus* universal measuring bus

Universal interface between digital measuring devices or multi-point measuring instruments and PC with CAQ/QS programs. Suitable for use in industrial environments.

Properties:

- Powerful and flexible interface modules for electronic length-measuring probes and measuring instruments
- Modular measuring bus design: per PC, max. 8 measuring buses (devices), per measuring bus up to 64 connections, meaning up to 512 (8 x 64) measuring instruments can be connected
- Combination of several module groups in one measuring bus, length up to 1200 m (connected with bus extension cable) ability to connect several measuring instruments/stations to one measuring bus even if they are physically separate
- Automatic addressing of modules used in measuring bus (plug & play)
- · High resolution and measuring accuracy of length measuring probe modules
- Connections to peripheral devices (e.g. PC): USB, RS232, LAN, WiFi, Profibus
- Additional modules for
- further measuring instruments (e.g. incremental, analogue and pneumatic measuring instruments)
- Control of program sequences
- Power supply
- Easy module connection (RS485 bus interface)
- Can optionally be used as a table model or installed in top-hat rails
- IMB_Test software for system configuration and testing measurement value transmission

Options:

- IBREXDLL software for importing, displaying and evaluating measurement data in MS Excel, no. 39956 505
- ComGage software, for measurement and statistical process control in manufacturing,
- · IBR-DDK.DLL software (device driver kit) for implementing the measuring buses in current Windows CAQ/QS programs
- Compact measuring computers Mecc and Meic for industrial applications

Technical details: All modules in robust AL housing, dimensions height x depth: 49.25 X 62 mm (width depends on module)



① Max. 1200 m ② Wi-Fi (2) WI-FI (3) Profibus (4) Ethernet (5) RS232 (6) USB (7) Inductive sensor (8) Incremental (9) Air measuremen Air measurement
IBRit-rf1 radio modules (1) Analogue signals
(2) Measuring instruments with Digimatic interface Measuring instruments Opto RS232 interface
Measuring instruments with serial (RS232, RS422, ...) or parallel

Wireless measurement transmission with IBR radio modules

Application: The IBRit-RF1 radio module series is used for wireless data transmission from measuring instruments to PCs. It includes PC radio stations and measuring instrument radio modules. Up to 500 measuring instrument radio modules can be controlled by one PC radio station. The IBRit-rf1 radio module series offers absolute data security through double, independent checksum monitoring. The PC commu-nicates wirelessly with the measuring instruments via the IBRit-rf1 PC radio stations. The measuring instruction communicated wirelessly with the PC via by the IBRit-rf1 measuring instrument radio modules

- Product description and advantages:
 - Easy to use
 - Full data security
 - Cost-effective
 - Connects to all types of measuring instruments
 - Transfer acknowledgement
 - Compact design
 - Large range
 - Long battery life
 - Efficient working
 - CE & FCC approval
 - Tolerance feedback
 - Individually programmable
 - 500 measuring instruments
 - 500 PC remote transmission stations

Further information, advice and quotations available on request. Please contact us.



1) Data, 2) Feedback, 3) Confirmation

TESA BPX44 interface For wired measurement data transmission

Application:

For transmission of measurement data in combination with TESA 5-pin plug in line with DIN 45322.

Execution:

- Number of measurement instrument inputs: 4
- Can be extended to up to 64 measuring instrument inputs using a USB serial port
- Measuring ranges +/-: 200 µm, 500 µm, 2000 µm and 5000 µm
- Synchronisation time max. 1 ms
- Max. recording time 10 ms
- Housing dimensions (L x W x H) 172 mm x 155 mm x 55 mm

Advantage:

- Can be integrated in existing CAQ systems
- Compatible with interface TESA TWIN station

Delivery:

TESA interface boxes TESA BPX44, TIS software





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TESA interface box TESA BPX44



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Prod. Gr. 366

TORN[®] Connection cable

for measuring instruments with multiCOM interface

Application:

For wired data transfer from measuring instruments with multiCOM interfaces to e.g. PCs or interfaces with USB, RS232 or Digimatic interfaces

- Technical data: Data communication: Unidirectional
- Cable length: 2 m Data button on cable: Yes









Ident. No. 010	Ident. No. 010 Ident. No. 020		Ident. No. 030	
39855	multiCOM data cable with RS232 interface	Ident. No.	010 ●	
39855	multiCOM data cable with USB interface	Ident. No.	020	
39855	multiCOM data cable with DIGIMATIC interface	Ident. No.	030 ●	

Prod. Gr. 303

Connection cable TESA IESA

with TLC interfaces to e.g. PCs or interfaces with

for measuring instruments with TESA TLC interface

Application: For wired data transfer from measuring instruments

USB or Digimatic interfaces

Technical data:

Data communication: Bidirectional Cable length: 2 m



Ident. No. 220

210 TESA TWIN data cable with USB interface 39852... Ident. No 220 39852... TESA TWIN data cable with DIGIMATIC interface Ident. No

Prod. Gr. 366



200

Connection cable

For measuring instruments with opto RS232 interface

Application: with opto RS interfaces to e.g. PCs or interfaces with For wired data transfer from measuring instruments USB or RS232 interfaces Data communication Unidirectional Bidirectional Opto RS data cable 090 PREISSER 39852... with RS232 uni Ident. No. interface Opto RS data cable 091 TESA 39852... with RS232 bi Ident. No. interface Opto RS data cable 101 ■TESA 39852... Ident. No. . with USB interface Prod. Gr. 362 **Connection cable**



Application: For wired data transfer from measuring instruments with PowerRS interfaces to e.g. PCs or interfaces with RS232 interfaces

Power supply via the RS232 interface

Technical data:

Data communication: Bidirectional Cable length: 2 m

Ident. No.

39852... Prod. Gr. 362

Notes:

Connection cable svivac

For measuring instruments with proximity interfaces

Power RS data cable with

RS232 interface

Application:

For wired data transfer from measuring instruments with proximity interfaces to e.g. PCs or interfaces with USB or RS232 interfaces

Technical data: Data communication: Bidirectional Cable length: 3 m

39852	Proximity data cable with USB interface	Ident. No.	105 O
39852	Proximity data cable with RS232 interface	Ident. No.	190
	RS2S2 Interface	I	0

Prod Gr 362

Connection cable for measuring instruments with RS232 interface

Application:

No. 35176: For wired data transfer from measuring instruments with RS232 interfaces to e.g. PCs or interfaces with RS232 interfaces

No. 39852: For wired data transfer from measuring instruments with RS232 interfaces to e.g. PCs or hubs with USB interfaces

Notes:

Technical data:

Cable length: 2 m

No. 35176: Serial data cable, straight through No. 39852: Driver is provided on the supplied demo CD



No. 35176



No. 39852

Data communication			Unidirectional	Bidirectional
39852	RS232 data cable with USB interface	ldent. No.	102 ●	-
35176	RS232 data cable with RS232 interface	Ident. No.	-	150 O

Prod. Gr. 362





as EXCEL, WORD etc. For measuring instruments with serial interfaces connected to USB ports via keyboard interfaces.

Execution:

- Power supply via USB interface
- USB interface is detected as a keyboard
- Closing characters such as Enter or Tab can be set on the USB interface. These are automatically sent together with the data.
- Language, separator settings etc.
- Data transfer via data button on the measuring instrument or using a timer
- Timer function can be set from 0-99 seconds for the transmission of measured values within a specified time interval

No driver file needed for the USB interface

Delivery:

Ident. No. 210: USB interface with operating instructions

Ident. No. 220: USB interface, USB cable to PC, adapter for foot-operated switch, operating instructions

Notes:

Ident. No. 220: Bidirectional data cable required

Technical data:

Data transmission type: USB



Ident, No. 210 Interface Opto-USB-0 with TESA CAL IP67 vernier calipers and MS Excel application



Interface RS232-USB-1

Interface input			-	1 x RS232	
Suitable for			Measuring instruments with Opto-RS232 interface. No additional	One measuring instrument with serial interface. Bidirectional data	
			data cable is required.	cable is also required.	
39870	Interface opto USB 0	Ident. No.	210		
39870		ident. No.	•	-	
39870	Interface RS232 USB 1	Ident. No.		220	
			-	•	

Prod. Gr. 395





Source: Hahn+Kolb Werkzeuge GmbH 1 1 3 6 Technical data subject to change. Availability subject to country specific rules and regulations



MarCom Professional software version 5.1 facilitates recording of measurement data in MS Excel (from version 97)

Application:

For transmitting measurement data from measuring instruments with MultiCom or MarConnect data output and for measuring instruments with USB data cables. Imported measuring data can be freely assigned to columns, sheets or books.

Design:

- Over 100 measuring instruments with multiCOM interface and USB connecting cable can be connected.
- Additional connection of 2 measuring instruments with RS232C connecting cable.
- Flexible and convenient transfer of measured values with either the "Data" button on the measuring instrument and data cable or via PC keyboard, timer, foot switch on USB interface or remote operation.
- Multiple foot-operated switches can be connected via USB. Assignment to measuring instruments can be freely defined depending on the measuring task. Configurable measuring cycles (e.g. transfer of all measured values, or following operation of the foot-operated switch)
- Cyclic measured value request via timer
- Transmission of measured values to separate columns (rows), sheets or books according to the measuring instrument

Free download at:

www.mahr.com/marcom

System requirements:

MS Windows 7/MS Windows 8/USB interface version 1.1 or higher/at least 10 MB free hard drive space/MS Excel version 97 or higher



Keyboard interface

For transferring measured values via keyboard interface

Application: For transferring measured values via keyboard

interface, e.g. to Microsoft® Office applications such as EXCEL, WORD etc. For measuring instruments with serial interfaces connected to USB ports via keyboard interfaces.

Execution:

- Power supply via USB interface
- USB interface is detected as a keyboard
- Closing characters such as Enter or Tab can be set on the USB interface. These are automatically sent together with the data.
- Language, separator settings etc.
- Data transfer via data button on the measuring instrument or using a timer
- Timer function can be set from 0-99 seconds for the transmission of measured values within a specified time interval

- Cascadable, allowing the measuring station to be extended at any time with additional T-boxes from the 30X USB series
- Measurements triggered via optionally available foot-operated switch

Advantage:

- Cost-effective solution for transferring measured data
- No driver file needed for the USB interface

Delivery:

T-Box 305 USB: includes connection cable, operating instructions

Technical data:

- Interface input: 2 x RS232 | 3 x DIGIMATIC
- Data transmission type: USB
- Suitable for: Multiple measuring instruments with serial or DIGIMATIC interface. Bidirectional data cables are also required.





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T-Box 305-USB with examples of measuring devices that can be connected (max. 2x RS232)

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