

MarConnect. USB ready

► | The new flexible **MarConnect** interface from Mahr. Simplifies both data transmission to a PC and enables quick and universal assembly of a multiple measuring station. | ◀

- **Choose alternative methods of data transmission** either with a foot switch or a PC keyboard, direct on the measuring instrument or with the Timer function



- **Clear and flexible data acquisition** with the easy to use **MarCom Professional Software**

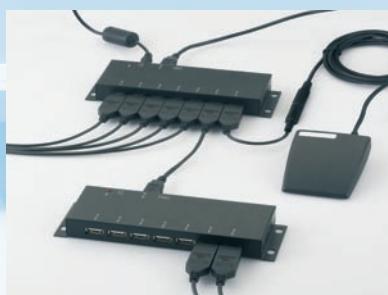
Program	Measuring Instruments	Description	Measured Value	Data Request Transfer to
4 USB-Devices				
USB1	Shaft 1	2001 2000sub	+0.197	Timer 00:50:51
USB2	Footswitch 1	Switch MC1	---	
USB3	Micrometer 2	400x15 160x10	+017.38	Switch: Footswitch 1
USB4	Dimension 1	160x 160x10	+003.66	Key: F1



- **Compatible** with all **MarConnect USB ready** measuring instruments

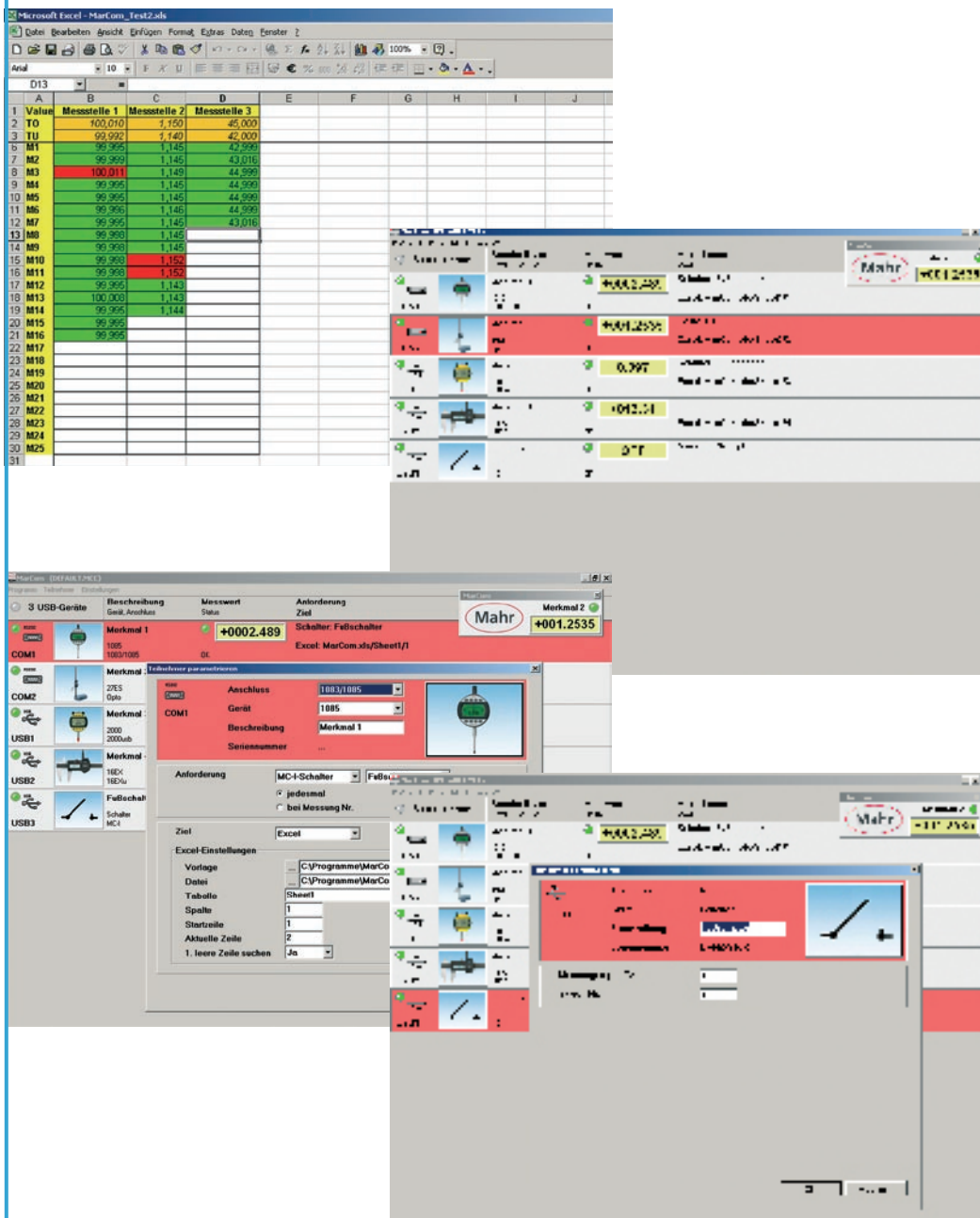


- **Multiple measuring station** is easily set up with a USB hub, up to 100 measuring devices can be simultaneously connected



- **Easily extendable** with additional USB hubs

MarCom Software



Features

Software MarCom Professional

- Measured values can be directly transferred into either MS Excel (from version 97) or into a text file or key code
- The measured values from each instrument can be sent to a different column, table or folder in Excel
- Data transmission is possible via USB and 2 serial COM interfaces
- USB hub is also suitable as a measuring instrument interface
- Up to 100 measuring instruments can be connected with USB data cable
- Clear portrayal of the chosen measuring instruments with the aid of icons
- Several foot switches can be connected up via USB. Measuring instruments can be freely assigned
- Freely definable and configurable measurement cycles
- There are a variety of ways to transmit data, you can either press the "Data" button on the measuring instrument or on the data cable; via a computer, timer, keyboard; or by activating a foot switch connected to a USB interface
- Text file can be edited thus translated in diverse languages

Software MarCom Standard

(USB cable is not included in the scope of supply)

System Requirements

IBM AT compatible PC
MS Windows® 2000, XP, Vista
USB interface, higher than 1.1
up to 10 MB
CD / DVD drive
Recommended: MS Excel from Version 97 onwards

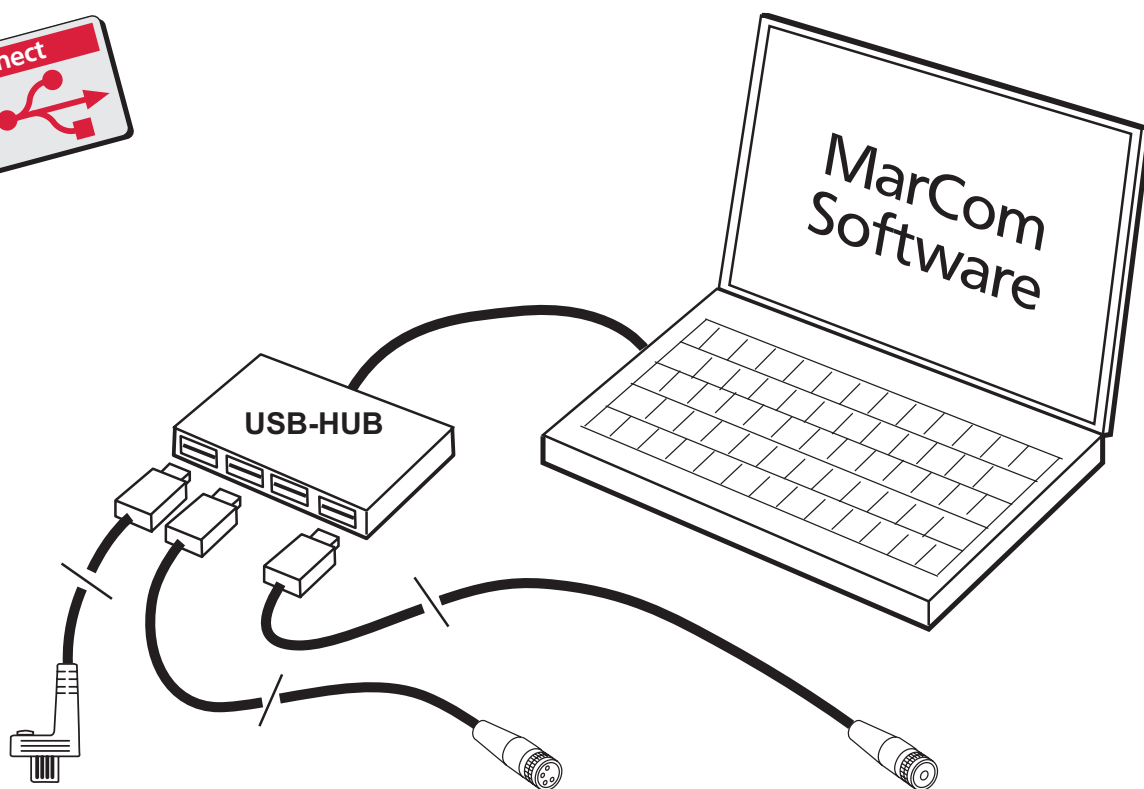
Order no.

Software MarCom Professional
Software MarCom Standard

4102552
4102551

Features and system requirements are identical to MarCom Professional, except that it only has one USB and one serial COM interface

USB ready Measuring Instruments



Data Connection Cable **16 EXu**
Order no. 4102357
 incl. MarCom Standard

for **MarCal.** Calipers
 16 EX / EXP
 16 EXV
 18 EX / EXP
 30 EX / EXN



for **Digimar.** Height Gages
 814 S



for **Micromar.** Micrometers
 40 EX, 40 EWS, 40 EWW
 44 EX, 46 EX



for **MarCator.** Dig. Indicators
 1075, 1080, 1081,
 1086, 1087



Data Connection Cable **2000 usb**
Order no. 4346023
 incl. MarCom Standard

for **MarCator.** Dig. Indicators
 1088



for **Millimess.** Digital
 Comparators
 2000
 2001
 2100



Data Connection Cable **MC-I**
Order no. 4102782
 incl. MarCom Standard

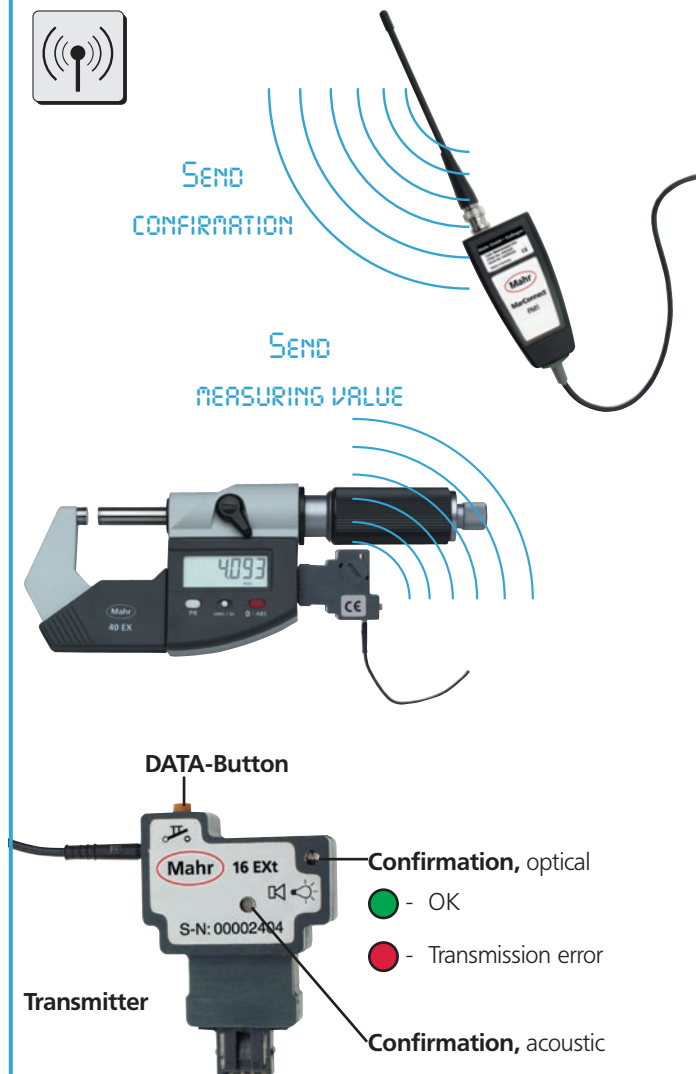
for **Foot switch**
Order no. 4102058



USB-HUB 7-fold industrial model
220 V **Order no. 4102553**
110 V (US type) **Order no. 2245786**



Radio Transmission Radio system FM 1*



* Only available in North America, Canada and Mexico

Transmitter

For Measuring Instruments			Order no.
MarCal	16 EX, 16 EXC, 16 EXV, 18 EX, 30 EX, 30 EXN	16 EXt	4102321
Digimar	814 S		
Micromar	40 EX, 44 EX, 46 EX, 40 EWS, 40 EWW		
MarCator	1075, 1080, 1081, 1086, 1087		
MarCal	25 ES, 30 EWD, 31 ES, 32 ES	16 Est	4102322
Digimar	27 ES, M 814		
MarTool	106 ES		
Millimar	C1208, C1216, C1245, S1840	RS232 t	2121315
Digimar	CX1, CX2, 817 CLM		

Contact Mahr Federal for transmitters to be used with:
 μMaxμm
 Digimatic devices
 Digimatic data cables

Features

- Secure data transmission with dialogue between receiver and transmitter
- Acoustic and optical confirmation of receipt by the transmitter
- Compact transmitter is connected directly on the interface of the measuring instrument
- Power is supplied for the receiver via a USB-Interface on the PC
- Up to 120 measuring instruments can be connected to the receiver
- Radio transmission distance is from 10 m up to 200 m (depending on the environment)
- Radio frequency is 433.926 MHz

The transmission of the measured value takes place via actuation of the DATA button on the transmitter. The transmitter supplements the measured value with an address number, a communication control word and a double check sum. The special data coding and the feedback from the PC to the transmitter ensures absolute data security.

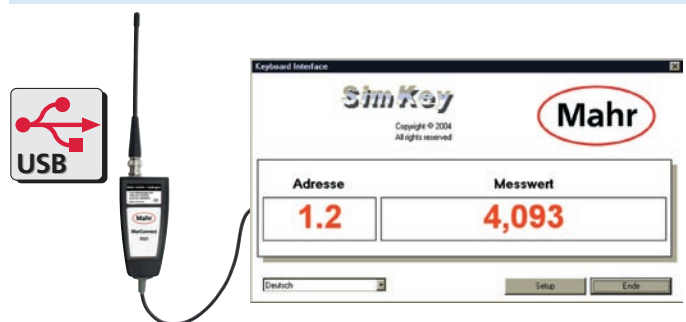
A transmission error is recognized by the dialogue between PC and transmitter.

The data transmission is then repeated up to three times automatically within a few milliseconds

When the data is successfully transmitted the green light on the transmitter flashes and a short beep is heard confirming transmission.

Receiver

	Order no.
Receiver for USB interfaces incl. driver and basic software. Basic software consists of a software keyboard interface and software to store measured values in an MS-Excel® column.	FM 1 4102320



Optional Software

	Order no.
Mahr_EXDLL (optional) Software for storing measuring data of several radio modules in any Excel table. Contact Mahr Federal for optional MS Excel based software that allow for:	4102323
<ul style="list-style-type: none"> • Data manipulation of up to 120 data inputs • Full SPC and graphical displays 	

MarConnect. Interfaces

Overview

Connect to ... Instrument	PC			
	 direct via USB and MarCom Software	 direct via RS232C and MarCom Software	 via Digi-USB 1	via T-Box
Foot Switch	4102058+4102782 ③	4102058+4102782 ②③	-----	4102556
16 EX / EXC 16 EXV 18 EX 30 EX / EXN 40 EX, 40 EWS, 40 EWW, 46 EX, 44 EX 1075, 1080, 1081, 1086, 1087 814 S	4102357	4102410	4102411	4102411
2000, 2001, 2100 1088	4346023	4346020	4346021	4346021
838 EA, 838 EI	-----	-----	4495084 ⑥	4495084 ⑥
Maxµm III (10 pin output) (6 pin output)	-----	-----	2239038 2239036	2239037 2239035
µMaxµm, µMaxµm XL	-----	SCB-4	2001025	2001025
25 ES 30 EWD 31 ES, 32 ES 106 ES M 814	4102510+4102330	4102510	-----	4102510
MSP 2	4102711+4102334 ④	4102711 ④	-----	-----
1240, S1840, C1245, C1208, C1216	7024634+4102331 ⑤	7024634 ⑤	-----	4102715
Digimar CX 1, CX 2, 817 CLM	7024634+4102333 ④	7024634 ④	-----	-----

① Only available in North America, Canada and Mexico

② Foot switch; only with an additional USB Port


③ Cable length 18 cm / 7"

④ Data transmission only with the "Data" key or "automatic transmission" on the measuring instrument

⑤ Foot switch to transfer data on the measuring instrument

Millimar - Order no. 5330956 / Millimar 1240 - Order no. 5312431

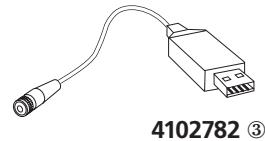
► | **MarConnect.** Regardless of which interface standard you use, whether; USB, OptoRS232 oder Digimatic, MarConnect always provides you with the optimum connection. | ◀

 Transmitter ① FM 1 via USB	Data printer MSP 2
-----	4102058
4102321	4102411
-----	4346021
Contact Mahr Federal	4495084 ⑥
-----	2239037 2239035
Contact Mahr Federal	2001025
4102322	4102510
-----	-----
2121315 ⑦	7024634
2121315	7024634 ④

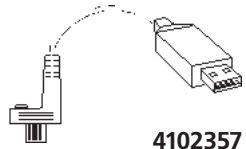
Standard cable length 2 m



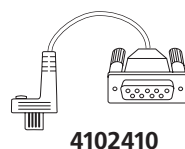
4102058



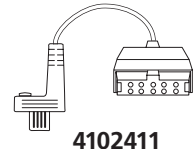
4102782 ③



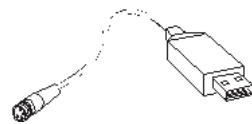
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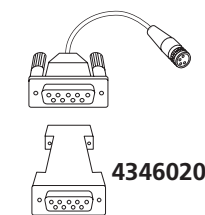
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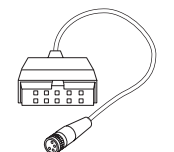
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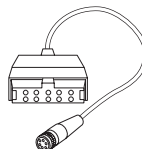
4346023



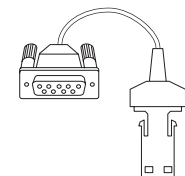
4346020



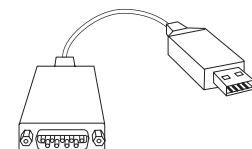
4346021



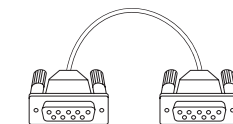
2001025 / 2239037 / 4495084 ⑥



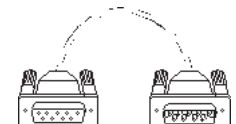
4102510



4102330 to 4102334 ⑥



4102715 / 7024634



4102711

⑥ Cable length 1.5 m / 5 ft
 ⑦ Not for Millimar 1240