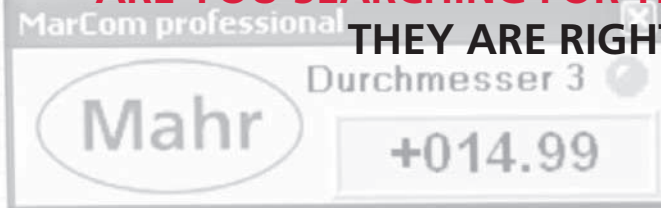


**ARE YOU SEARCHING FOR THE RIGHT CONNECTIONS?  
THEY ARE RIGHT HERE AT MARCONNECT.**



Programm	Messgeräte	Einstellungen	?	
4	USB-Geräte	Beschreibung Gerät, Anschlusskabel	Messwert Status	Anforderung Ziel
USB1	Fußschalter	Schalter MCI	---	Messung Nr.: 0/1
USB2	Durchmesser 1	1087 16E%u	+015.17	Schalter: Fußschalter Excel: Default.xlt/Tabelle1/1
USB3	Durchmesser 2	1087 16E%u	+025.35	Schalter: Fußschalter Excel: Default.xlt/Tabelle1/2
USB4	Durchmesser 3	1087 16E%u	+014.99	Schalter: Fußschalter Excel: Default.xlt/Tabelle1/3

Our new digital hand-held measuring instruments are equipped with MarConnect interface capability. Regardless of which interface standard you use, whether USB, Opto R S232 or Digimatic; MarConnect will always provide you with the optimal connection.

## MARCONNECT. DATA PROCESSING

### Overview

**MarConnect MarCom Professional 5.2** 508

**MarConnect MarCom Professional 5.2** 510  
Clear and flexible data acquisition

### MarConnect Wireless Data Transmission

**MarConnect i-Stick** 512  
Wireless Data Receiver

**MarConnect e-Stick** 514  
Wireless Data Receiver

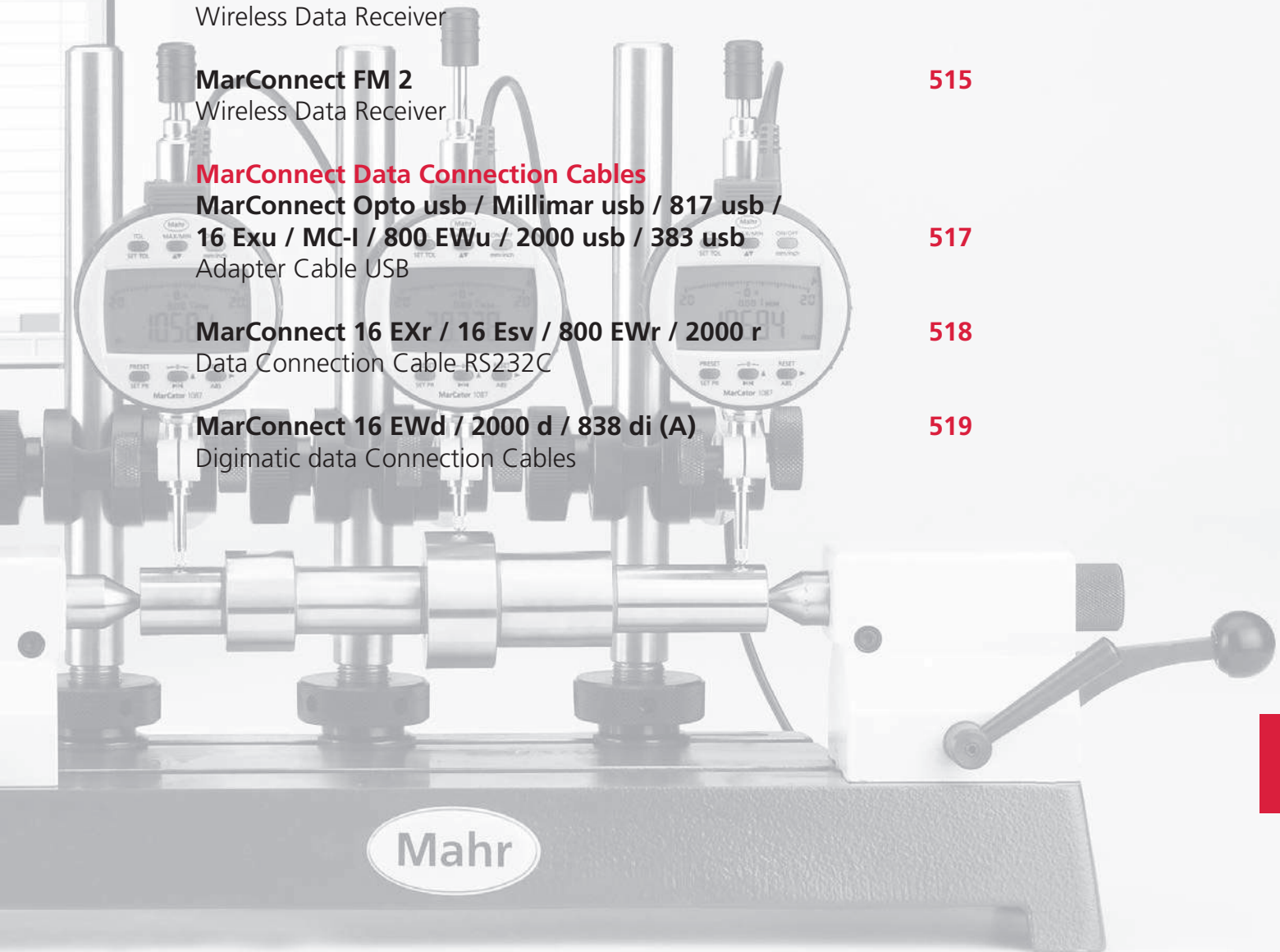
**MarConnect FM 2** 515  
Wireless Data Receiver

### MarConnect Data Connection Cables

**MarConnect Opto usb / Millimar usb / 817 usb / 16 Exu / MC-I / 800 EWu / 2000 usb / 383 usb** 517  
Adapter Cable USB

**MarConnect 16 EXr / 16 Esv / 800 EWr / 2000 r** 518  
Data Connection Cable RS232C

**MarConnect 16 EWd / 2000 d / 838 di (A)** 519  
Digimatic data Connection Cables



# SMAHRT CONNECTIVITY

## Sending measuring results

Data

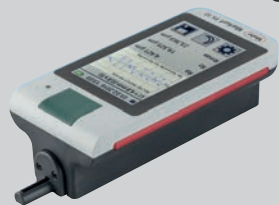
### Integrated wireless technology



### Retrofitted wireless technology



### Cable technology



**MarCom Pro**  
**Free to**  
**www.mahr.**

Scan the QR code  
to watch simple and  
practical applications



**HIGHLIGHT:** Our contribution to Industry 4.0: You can now download MarCom Professional software free of charge!

transfer **Data processing**



**CAQ-/SPC-Software**

BABTEC Q-DAS BÖHME & WEIHS

**Microsoft Office Excel®**

	A	B	C
1			
2			
3			
4			
5			
6			

**Any Windows software**

**Flexible data processing**

```
TXTTXXTX  
TXTTXXTX  
TXTTXXTX  
TXTTXXTX  
TXTTXXTX  
TXTTXXTX  
TXTTXXTX  
TXTTXXTX  
TXTTXXTX
```

# MarConnect MarCom Prof. 5.2. Software interface



- Directly transfer measured values into MS Excel®, SPC Software using virtual interface box (MUX50 format), a text file or key code
- The measured values for each connected measuring instrument can be copied into a separate column, table or folder in MS Excel®
- USB hubs can also be connected as a measuring instrument interface
- Clear depiction of the selected measuring devices by means of icons
- Freely definable and configurable measurement cycles
- Flexible, user-friendly data transmission via the „Data“ button on the measuring device or data cable or via a PC keyboard, timer, remote control or foot switch connected to a USB interface
- **Scope of delivery:** Driver, Instruction manual
- **Software:** MarCom Professional free download:  
[www.mahr.com/marcom](http://www.mahr.com/marcom)(only for Mahr data cables and wireless systems with USB and RS232

## Technical Data

Order no.	4102212
Product type	MarCom Prof. 5.2
Number of connectable wireless receivers for i-stick	4
Number of connectable measuring instruments with integrated wireless	32
Number of connectable wireless receivers for e-stick	1
Number of connectable transmission modules for e-stick	8
Number of connectable wireless receivers FM 2	1
Number of connectable transmission modules for wireless receiver FM 2	100
Number of connectable measuring instruments with USB interface	128
Number of connectable USB foot switches	128
Number of connectable measuring instruments with RS232C interface	2
Number of virtual interface boxes (8 inputs)	4
Languages:	German, English, French, Italian, Spanish, Dutch, Russian, Polish, Portugese, Czech, Chinese, Romanian, Hungarian, Japanese

## Accessories

Order no.	Product description	Product type	For measuring instrument
4102220	Receiver	i-Stick	MarCal 16 EWRi / 30 EWRi MarCator 1086 Ri / 1087 Ri / 1087 BRi Micromar 40 EWRi
4102230	Receiver	e-Stick	Transmission modules 16 EWe, 2000 e, RS232 e
4102305	Receiver	FM 2	Transmission modules 16 EXf, 1082 f, 2000f, 817 f, RS232 f
4102231	Transmitter for e-Stick	16 EWe	MarCal 16 ER, 16 EWR, 16 EWW, 30 EWR, 30 EWN Digimar 814 SR Micromar 40 EWR, 40 EWS, 40 EWW, 44 EWR, 46 EWR MarCator 1075 R, 1086 R, 1087 R, 1087 BR MarSurf PS1, PS10

# MarConnect MarCom Prof. 5.2. Software interface

## Accessories

Order no.	Product description	Product type	For measuring instrument
4102306	Transmitter for FM 2	16 EXf	MarCal 16 ER, 16 EWR, 16 EWW, 30 EWR, 30 EWN Digimar 814 SR
4102357	16 EXu Data connection cable USB (2 m)	16 EXu	Micromar 40 EWR, 40 EWS, 40 EWW, 44 EWR, 46 EWR MarCator 1075 R, 1086 R, 1087 R, 1087 BR
4102410	Data connection cable RS232C (2 m)	16 EXr	MarCal 16 ER, 16 EWR, 18 EWR, 30 EWR, 30 EWN Digimar 814 SR Micromar 40 ER, 40 EWR, 40 EWW, 40 EWS, 44 EWR, 46 EWR MarCator 1075 R, 1086 R, 1086 Ri, 1087 R, 1087 Ri, 1087 BR, 1087 BRi MarSurf PS1, PS10, M300, M300C, Pocketsurf IV
4102232	Transmitter for e-Stick	2000 e	Digimar 816 CL MarCator 1088 / 1088W Millimess 2000, 2001, 2100, µMaxum II Millimar C1200
4102309	Transmitter for FM 2	2000 f	Digimar 816 CL MarCator 1088 / 1088W Millimess 2000, 2001, 2100, µMaxum II
4346023	2000 usb Data connection cable USB (2 m)	2000 usb	Digimar 816 CL MarCator 1088, 1088 W Millimess 2000, 2001, 2100, µMaxum II
4346020	Data connection cable RS232C (2 m)	2000 r	Digimar 816 CL MarCator 1088, 1088 W Millimess 2000, 2001, 2100, µMaxum II
7024634	Data connection cable RS232C (3 m)		Digimar 817 CLM Millimar C1208, C1216, 1240, C1245, S1840, S1841, X1715, X1745, 832
4102233	Transmitter for e-Stick	RS232 e	Millimar C1208, C1216, C1245, S1840 Digimar 817 CLM
4102331	Millimar - USB Adapter cable RS232-USB (1 m)	Millimar - USB	Millimar C1208, C1216, 1240, C1245, S1840, S1841, X1715, X1745, 832 (in conjunction with cable 7024634)
4102310	Transmitter for FM 2	817 f	Digimar 817 CLM
4102333	817 usb Adapter cable RS232-USB (1 m)	817 usb	Digimar 817 CLM (in conjunction with cable 7024634)
4102311	Transmitter for FM 2	RS232 f	Millimar C1208, C1216, C1245, S1840
4102307	Transmitter for FM 2	1082 f	Digimar M814 N/G Multimar 25 ES MarTool 106 ES
4102510	Data connection cable RS232C (2 m)	16 ESv	Digimar 814 G, 814 N Multimar 25 ES MarTool 106 ES
4102330	Opto usb Adapter cable RS232-USB (1 m)	Opto usb	Digimar M814 (in conjunction with cable 4102510) Multimar 25 ES (in conjunction with cable 4102510) MarTool 106 ES (in conjunction with cable 4102510)
4305121	800 EWu Data connection cable USB (2 m)	800 EWu	MarCal 31 EW MarTest 800 EW, 800 EWL
4305122	Data connection cable RS232C (2 m)	800 EWR	MarCal 31 EW MarTest 800 EW, 800 EWL
4495079	838 usb Data connection cable USB (1.5 m)	838 usb	Marameter 838 EI, 838 EA
4102553	USB-Hub 7-fold industrial model	USB-Hub	
4102554	USB 2.0 Docking Ball with 5 m extension cable, Interfaces: 1 x USB 2.0 Data , 1 x USB Power	MC-USB-Ext	
4102782	MC-I Data connection cable USB (0.1 m)	MC-I	Foot switch 16 ESf
4102058	Foot Switch to trigger data transmission	16 ESf	
4102221	Remote control for MarCom	MC-R	
4102239	Battery for eStick / FM2 transmission modules Type CR 1/3	CR1/3N	



FM 2



2000 f



16 EXf



16 EWe



e-Stick



# MarConnect i-Stick. Receiver



- **Measurement without the nuisance of additional modules:** Unlike conventional wireless solutions, which have a large external transmitter with separate battery, the transmitter in Integrated Wireless is fully integrated.
- **Highly mobile:** Integrated Wireless gives you much more mobility. There is no cable to get in the way, either at the measuring station or when measuring on or at the machine or at large workpieces
- **Easy data transfer:** With Integrated Wireless you can transfer your measured values to the PC simply using the iStick. As with a data cable, the measured values are accepted via the MarCom software directly into MS Excel® or via a keyboard code into any Windows application
- **Reliable transfer:** With Integrated Wireless you can be sure that your data will arrive safely. Measuring instruments with Integrated Wireless display messages to confirm whether the transmitted data has been correctly transferred or whether you are within receiving range of the iStick receiver
- **Long battery life:** The integrated wireless interface makes the measuring instrument exceptionally energy-efficient. And unlike conventional wireless systems, no additional battery is required
- **Affordable:** With Integrated Wireless you can connect up to 8 measuring instruments per iStick receiver. Expensive interface boxes are no longer necessary. With even one connected measuring instrument you get a wireless connection for the price of a cable
- **Scope of delivery:** i-stick wireless receiver, Driver
- **Software:** MarCom Professional free download: [www.mahr.com/marcom](http://www.mahr.com/marcom) (only for Mahr data cables and wireless systems with USB and RS232)

## Technical Data

<b>Order no.</b>	<b>4102220</b>	
<b>Number of channels</b>		3
<b>Frequency band</b>	<b>MHz</b>	2400
<b>Radio range</b>		up to 6 m
<b>Product type</b>		i-Stick
<b>Number of connectable wireless receivers for i-stick</b>		4
<b>Number of connectable measuring instruments with integrated wireless</b>		32
<b>For measuring instrument</b>		MarCal 16 EWRI / 30 EWRI MarCator 1086 Ri / 1087 Ri / 1087 BRi Micromar 40 EWRI

# MarConnect i-Stick. Receiver

## Accessories

Order no.	Product description	Product type
4103400	Digital Caliper, 0.01 mm, 0 –150 mm	16 EWri
4103401	Digital Caliper, 0.01 mm, 0 –150 mm	16 EWri
4103402	Digital Caliper, 0.01 mm, 0 –150 mm	16 EWri
4103403	Digital Caliper, 0.01 mm, 0 –150 mm	16 EWri
4103404	Digital Caliper, 0.01 mm, 0 –200 mm	16 EWri
4103405	Digital Caliper, 0.01 mm, 0 –200 mm	16 EWri
4103406	Digital Caliper, 0.01 mm, 0 –300 mm	16 EWri
4103407	Digital Caliper, 0.01 mm, 0 –300 mm	16 EWri
4126755	Digital Depth Gage, 0.01 mm, 0 –150 mm	30 EWri
4126756	Digital Depth Gage, 0.01 mm, 0 –300 mm	30 EWri
4126757	Digital Depth Gage, 0.01 mm, 0 –500 mm	30 EWri
4337624	Digital Indicator, 0.0005 mm, 12.5 mm	1086 Ri
4337625	Digital Indicator, 0.0005 mm, 25 mm	1086 Ri
4337626	Digital Indicator, 0.0005 mm, 50 mm	1086 Ri
4337627	Digital Indicator, 0.0005 mm, 100 mm	1086 Ri
4337628	Digital Indicator, 0.0005 mm, 25 mm	1086 Ri
4337134	Digital Indicator, 0.01 mm, 12.5 mm	1086 Ri
4337135	Digital Indicator, 0.01 mm, 25 mm	1086 Ri
4337136	Digital Indicator, 0.01 mm, 50 mm	1086 Ri
4337137	Digital Indicator, 0.01 mm, 100 mm	1086 Ri
4337142	Digital Indicator, 0.0005 mm, 12.5 mm	1086 WRi
4337143	Digital Indicator, 0.0005 mm, 25 mm	1086 WRi
4337147	Digital Indicator, 0.01 mm, 12.5 mm	1086 WRi
4337148	Digital Indicator, 0.01 mm, 25 mm	1086 WRi
4337663	Digital Indicator, 0.0005 mm, 12.5 mm	1087 Ri
4337665	Digital Indicator, 0.0005 mm, 25 mm	1087 Ri
4337664	Digital Indicator, 0.0005 mm, 12.5 mm	1087 BRi
4157100	Digitale Bügelmessschraube, 0 –25 mm	40 EWri
4157101	Digitale Bügelmessschraube, 25 –50 mm	40 EWri
4157102	Digitale Bügelmessschraube, 50 –75 mm	40 EWri
4157103	Digitale Bügelmessschraube, 75 –100 mm	40 EWri
4102554	USB 2.0 Docking Ball with 5 m extension cable, Interfaces: 1 x USB 2.0 Data , 1 x USB Power	MC-USB-Ext



1087 BRi



1087 Ri



1086 Ri



1086 Ri



30 EWri



16 EWri



# MarConnect e-Stick. Receiver



- To retrofit on all Mahr Hand Measuring instruments that have a data interface
- Wireless data transmission from a measuring instrument to a PC
- Secure data transmission due to the acknowledgement dialog of the received data from the PC to the measuring instrument
- Optical confirmation of received data on the transmitter
- Compact transmitter without an external antenna
- Bi-directional radio link (remote control from measuring instruments)
- Radio frequency is **2400 MHz**
- **Scope of delivery:** e-stick wireless receiver, Driver
- **Software:** MarCom Professional free download:  
[www.mahr.com/marcom](http://www.mahr.com/marcom) (only for Mahr data cables and wireless systems with USB and RS232)

## Technical Data

Order no.	4102230	
Frequency band	MHz	2400
Radio range		up to 6 m
Product type		e-Stick
Number of connectable wireless receivers for e-stick		1
Number of connectable transmission modules for e-stick		8
For measuring instrument	Transmission modules 16 EWe, 2000 e, RS232 e	

## Accessories

Order no.	Product description	Product type	For measuring instrument
4102231	Transmitter for e-Stick	16 EWe	MarCal 16 ER, 16 EWR, 16 EWW, 30 EWR, 30 EWN Digimar 814 SR Micromar 40 EWR, 40 EWS, 40 EWW, 44 EWR, 46 EWR MarCator 1075 R, 1086 R, 1087 R, 1087 BR MarSurf PS1, PS10
4102232	Transmitter for e-Stick	2000 e	Digimar 816 CL MarCator 1088 / 1088W Millimes 2000, 2001, 2100, µMaxum II Millimar C1200
4102233	Transmitter for e-Stick	RS232 e	Millimar C1208, C1216, C1245, S1840 Digimar 817 CLM
4102239	Battery for eStick / FM2 transmission modules Type CR 1/3	CR1/3N	
4102554	USB 2.0 Docking Ball with 5 m extension cable, Interfaces: 1 x USB-Ext USB 2.0 Data , 1 x USB Power	MC-	



16 EWe

# MarConnect FM 2. Funkempfänger

- Secure data transmission due to the acknowledgement dialog of the received data from the PC to the measuring instrument
- Optical confirmation of received data on the transmitter
- TWIN receiver for USB and RS232C interfaces
- Compact transmitter without an external antenna
- Theoretically unlimited amount of measuring instruments can be connected to a receiver
- Distance of radio wave up to 100 m (depending on the working environment)
- Radio frequency is 433 MHz (further frequencies are available upon request)
- Up to 69 channels are available per receiver, several receivers can be used at any one time
- Bi-directional radio link (remote control from measuring instruments)
- Triggering data via a hand switch is possible
- **Scope of delivery:** FM2 wireless receiver, Driver, USB cable
- **Software:** MarCom Professional free download:  
[www.mahr.com/marcom](http://www.mahr.com/marcom) (only for Mahr data cables and wireless systems with USB and RS232C)



## Technical Data

<b>Order no.</b>	<b>4102305</b>		
<b>Number of channels</b>			69
<b>Number of transmitters</b>			100
<b>Frequency band</b>	<b>MHz</b>		433
<b>Radio range</b>			up to 100 m (depending on the working environment)
<b>Product type</b>			FM 2
<b>For measuring instrument</b>			Transmission modules 16 EXf, 1082 f, 2000f, 817 f, RS232 f

<b>Order no.</b>	<b>Depth</b>	<b>Height</b>	<b>Width</b>
	<b>mm</b>	<b>mm</b>	<b>mm</b>
<b>4102305</b>	25	120	60

# MarConnect FM 2. Receiver

## Accessories

Order no.	Product description	Product type	For measuring instrument
4102306	Transmitter for FM 2	16 EXf	MarCal 16 ER, 16 EWR, 16 EWW, 30 EWR, 30 EWN Digimar 814 SR Micromar 40 EWR, 40 EWS, 40 EWW, 44 EWR, 46 EWR MarCator 1075 R, 1086 R, 1087 R, 1087 BR
4102307	Transmitter for FM 2	1082 f	Digimar M814 N/G Multimar 25 ES MarTool 106 ES
4102309	Transmitter for FM 2	2000 f	Digimar 816 CL MarCator 1088 / 1088W Millimess 2000, 2001, 2100, µMaxum II
4102310	Transmitter for FM 2	817 f	Digimar 817 CLM
4102311	Transmitter for FM 2	RS232 f	Millimar C1208, C1216, C1245, S1840
4102239	Battery for eStick / FM2 transmission modules Type CR 1/3	CR1/3N	



16 EXf



2000 f

# MarConnect Opto usb / Millimar - USB / 817 usb / 16 EXu / MC-I / 800 EWu / 2000 usb / 838 usb. Adapter cable RS232-USB

- For connecting the measuring instrument to a PC
- Data transfer to MarCom or other applications via virtual communication interface
- **Scope of delivery:** USB cable, Driver
- **Software:** MarCom Professional free download:  
[www.mahr.com/marcom](http://www.mahr.com/marcom) (only for Mahr data cables and wireless systems with USB and RS232)



## Technical Data

Order no.	Cable length m	Product type	For measuring instrument
4102330	1	Opto usb	Digimar M814 (in conjunction with cable 4102510) Multimar 25 ES (in conjunction with cable 4102510) MarTool 106 ES (in conjunction with cable 4102510)
4102331	1	Millimar - USB	Millimar C1208, C1216, 1240, C1245, S1840, S1841, X1715, X1745, 832 (in conjunction with cable 7024634)
4102333	1	817 usb	Digimar 817 CLM (in conjunction with cable 7024634)
4102357	2	16 EXu	MarCal 16 ER, 16 EWR, 18 EWR, 30 EWR, 30 EWN Digimar 814 SR Micromar 40 ER, 40 EWR, 40 EWW, 40 EWS, 44 EWR, 46 EWR MarCator 1075 R, 1086 R, 1086 Ri, 1087 R, 1087 Ri, 1087 BR, 1087 BRi MarSurf PS1, PS10, M300, M300C, Pocketsurf IV
4102782	0.1	MC-I	Foot switch 16 ESf
4305121	2	800 EWu	MarCal 31 EW MarTest 800 EW, 800 EWL
4346023	2	2000 usb	Digimar 816 CL MarCator 1088, 1088 W Millimes 2000, 2001, 2100, µMaxum II
4495079	1.5	838 usb	Marameter 838 EI, 838 EA

## Accessories

Order no.	Product description	Product type
4102221	Remote control for MarCom	MC-R
4102553	USB-Hub 7-fold industrial model	USB-Hub
4102058	Foot Switch to trigger data transmission	16 ESf

# MarConnect 16 EXr / 16 ESv / 800 EWr / 2000 r. Data connection cable RS232C



- For connecting the measuring instrument to an interface box or PC
- Data transfer to MarCom or to other applications via communication interface
- **Software:** MarCom Professional free download:  
[www.mahr.com/marcom](http://www.mahr.com/marcom) (only for Mahr data cables and wireless systems with USB and RS232 interface)

## Technical Data

Order no.	Cable length	Product type	For measuring instrument
	<b>m</b>		
4102410	2	16 EXr	MarCal 16 ER, 16 EWR, 18 EWR, 30 EWR, 30 EWN Digimar 814 SR Micromar 40 ER, 40 EWR, 40 EWV, 40 EWS, 44 EWR, 46 EWR MarCator 1075 R, 1086 R, 1086 Ri, 1087 R, 1087 Ri, 1087 BR, 1087 BRi MarSurf PS1, PS10, M300, M300C, Pocketsurf IV
4102510	2	16 ESv	Digimar 814 G, 814 N Multimar 25 ES MarTool 106 ES
4305122	2	800 EWr	MarCal 31 EW MarTest 800 EW, 800 EWL
4346020	2	2000 r	Digimar 816 CL MarCator 1088, 1088 W Millimes 2000, 2001, 2100, µMaxum II
7024634	3		Digimar 817 CLM Millimar C1208, C1216, 1240, C1245, S1840, S1841, X1715, X1745, 832

# MarConnect 16 EWd / 2000 d / 838 di (A). Digimatic data cable

- For connection to Digimatic compatible interfaces and evaluation equipment



## Application:

Data collection with Digimatic-compatible devices

## Technical Data

Order no.	Cable length m	Product type	For measuring instrument
4102915	2	16 EWd	MarCal 16 ER, 16 EWR, 18 EWR, 30 EWR, 30 EWN Digimar 814 SR Micromar 40 ER, 40 EWR, 40 EWW, 40 EWS, 44 EWR, 46 EWR MarCator 1075 R, 1086 R, 1086 Ri, 1087 R, 1087 Ri, 1087 BR, 1087 BRi MarSurf PS1, M300, M300C
4346021	2	2000 d	Digimar 816 CL MarCator 1088, 1088 W Millimes 2000, 2001, 2100, µMaxum II Millimar C1200
4495083	1.5	838 di (A)	Marameter 838 EI, 838 EA