

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



The latest information on MARCONNECT products can be found on our website:

[www.mahr.de/en/Home](http://www.mahr.de/en/Home), WebCode 20453

Programm	Messgeräte	Einstellungen		
4 USB-Geräte	Beschreibung Gerät, Anschlusskabel	Messwert Status	Anforderung Ziel	
USB1	Fußschalter Schalter MC1	---	Messung Nr.: 0/1	
USB2	Durchmesser 1 1087 16EXu	+015.17 OK	Schalter: Fußschalter Excel: Default.xlt/Tabelle1/1	
USB3	Durchmesser 2 1087 16EXu	+025.35 OK	Schalter: Fußschalter Excel: Default.xlt/Tabelle1/2	
USB4	Durchmesser 3 1087 16EXu	+014.99 OK	Schalter: Fußschalter Excel: Default.xlt/Tabelle1/3	

▶ | Our new digital hand held measuring instruments are all equipped with the flexible MarConnect interface. Regardless of which interface standard you use: Integrated Wireless, USB, Opto RS232 or Digimatic; MarConnect will always provide you with the optimal connection.

## ▶ | MarConnect. Data Processing

### Overview

**MarConnect MarCom Professional 5.0**

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**MarConnect MarCom Standard 5.0 / Professional 5.0**

Clear and flexible data acquisition

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### MarConnect Wireless Data Transmission

**MarConnect i-Stick**

Wireless Data Receiver

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**MarConnect e-Stick**

Wireless Data Receiver

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**MarConnect FM 2**

Wireless Data Receiver

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### MarConnect Data Connection Cables

**MarConnect 16 EWd / 2000 d / 838 di (A)**

Digimatic Data Connection Cables

11-11

# MarConnect MarCom Professional 5.0

► | Whether you are using the tried and tested MarConnect interface or the new wireless data transmission Integrated Wireless, the MarCom software enables you to transmit data quickly and easily from a measuring station to a PC. | ◀

### Measuring Instruments

**Wireless Transmission**

**Data Transmission via cable**

### Trigger a sending command:



- On the measuring instrument



- Using a remote control

## Data Transmission



- Footswitch



- Keyboard



- Timer function

### Universal Software MarCom Profession

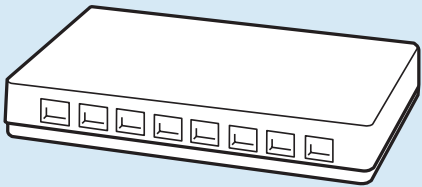
Interface on device: 4 x 8

Interface on device:  
Data cable USB 128  
i-Stick 4 x 8  
e-Stick 1 x 8

Interface on device:  
Data cable USB 128  
i-Stick 4 x 8  
e-Stick 1 x 8

Interface on device:  
Data cable USB 128  
i-Stick 4 x 8  
e-Stick 1 x 8

# - Interface al 5.0



**Virtual Interface Box**

	A	B	C
1	↓	↗	
2			
3			
4			
5			
6			

**Intelligent Excel Interface**



**Keyboard Emulation**

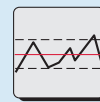
```

TXXTXXTXT
TXXTXXTXT
TXXTXXTXT
TXXTXXTXT
TXXTXXTXT
TXXTXXTXT
TXXTXXTXT
TXXTXXTXT
    
```

**Text - File**

## Data Acquisition

### SPC Software



The MarCom Professional 5.0 has integrated virtual interface boxes. This enables a simple and user friendly connection of measuring instruments to an SPC program which use the MUX50 data format from manufacturers such as Babtec, Q-DAS and others.

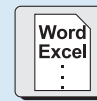


### Microsoft Office Excel®



Irrespective of whether you are using existing Excel templates or those designed for your requirements, the MarCom cell controller is highly flexible.

### Any Windows Software



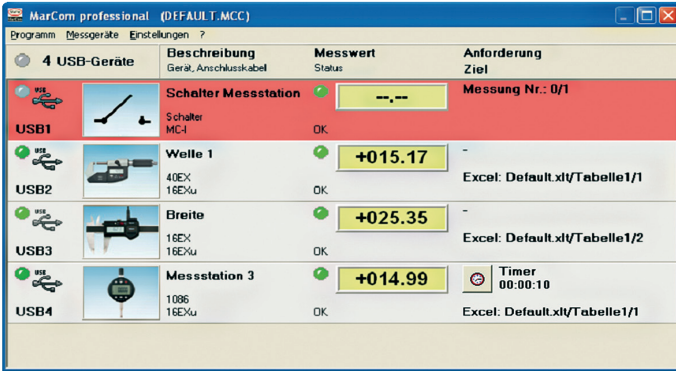
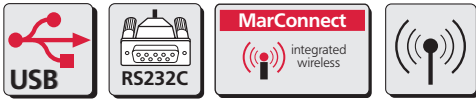
Do you use an application which does not support the integration of a measuring instrument? No Problem, with the MarCom keyboard emulation the measured values will be sent directly to the active cell of the program in use.

### Flexible data transmission



MarCom is extremely flexible and enables freely configurable measuring cycle; regardless of whether you are sending data using a foot switch, on the measuring instrument, a Timer function or a Keyboard.

## Software interface MarCom Std. 5.0 / MarCom Prof. 5.0 / MarCom Upd. 5.0



### Features

- Directly transfer meas. values into MS Excel (from Version 97), **into SPC-Software using virtual interface box (MUX50 format)**, a text file or key code
- Measured values from each device can be sent to a different column, table or folder in Excel
- USB hub is also suitable as a measuring instrument interface
- Clear portrayal of selected measuring devices with the aid of icons
- Freely definable / configurable measurement cycles
- Data transmission via Data-button on meas. devices or on the data cable; via a PC, timer, keyboard, remote control or a foot switch connected to a USB interface
- Supplied with: Driver, operating instructions

### Technical Data

	MarCom Std. 5.0	MarCom Prof. 5.0	MarCom Upd. 5.0
Number of connectable wireless receivers for i-stick	1		4
Number of connectable measuring instruments with integrated wireless	1		32
Number of connectable wireless receivers for e-stick		1	
Number of connectable transmission modules for e-stick	1		8
Number of connectable wireless receivers FM		1	
Number of connectable transmission modules for wireless receiver FM	1		100
Number of connectable measuring instruments with USB interface	1		128
Number of connectable USB foot switches	1		128
Number of connectable measuring instruments with RS232C interface	1		2
Number of virtual interface boxes (8 inputs)			4
Languages:	German, English, French, Italian, Spanish, Dutch, Russian, Polish, Portuguese, Czech, Chinese		
<b>Order no.</b>	<b>4102211</b>	<b>4102212</b>	<b>4102213</b>

### Accessories

		For Measuring Instruments	Order no.
<b>i-Stick</b>	Receiver incl. Software MarCom Std.	MarCal 16 EWri / 30 EWri MarCator 1086 Ri / 1087 Ri / 1087 BRi	<b>4102220</b>
<b>e-Stick</b>	Receiver incl. Software MarCom Std.	Transmitter 16 EWe, 2000 e, RS232 e, 1082 e	<b>4102230</b>
<b>FM 2</b>	Receiver incl. Software MarCom Std.	Transmitter 16 EXf, 1082 f, 2000f, 817 f, RS232 f	<b>4102305</b>
<b>16 EWe</b>	Transmitter for e-Stick	MarCal 16 ER, 16 EWR, 16 EWV, 30 EWR, 30 EWN Digimar 814 SR Micromar 40 EWR, 40 EWS, 40 EWV, 44 EWR, 46 EWR MarCator 1075 R, 1086 R, 1087 R, 1087 BR MarSurf PS1	<b>4102231</b>
<b>16 EXf</b>	Transmitter for FM 2	MarCal 16 ER, 16 EWR, 16 EWV, 30 EWR, 30 EWN Digimar 814 SR Micromar 40 EWR, 40 EWS, 40 EWV, 44 EWR, 46 EWR MarCator 1075 R, 1086 R, 1087 R, 1087 BR	<b>4102306</b>
<b>16 EXu</b>	Data Connection Cable USB (2 m) incl. Software MarCom Std.	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, M300, M300C	<b>4102357</b>

## Accessories

		For Measuring Instruments	Order no.
<b>16 Exr</b>	Data Connection Cable RS232C (2 m)	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	<b>4102410</b>
<b>2000 e</b>	Transmitter for e-Stick	Digimar 816 CL MarCator 1088 / 1088 W Millimes 2000, 2001, 2100, $\mu$ Maxum // Millimar C1200	<b>4102232</b>
<b>2000 f</b>	Transmitter for FM 2	Digimar 816 CL, Millimar C 1200 MarCator 1088 / 1088 W Millimes 2000, 2001, 2100, $\mu$ Maxum //	<b>4102309</b>
<b>2000 usb</b>	Data Connection Cable USB (2 m) incl. Software MarCom Std.	Digimar 816 CL, Millimar C1200 MarCator 1088, 1088 W Millimes 2000, 2001, 2100, $\mu$ Maxum //	<b>4346023</b>
<b>2000 r</b>	Data Connection Cable RS232C (2 m)	Digimar 816 CL, Millimar C1200 MarCator 1088, 1088 W Millimes 2000, 2001, 2100, $\mu$ Maxum //	<b>4346020</b>
	Data Connection Cable RS232C (3 m)	Digimar 817 CLM Millimar C1208, C1216, 1240, C1245, S1840, S1841, X1715, X1745	<b>7024634</b>
<b>RS232 e</b>	Transmitter for e-Stick	Millimar C1208, C1216, C1245, S1840, Digimar 817 CLM	<b>4102233</b>
	Adaptor Cable RS232-USB (1 m) incl. Software MarCom Std.	Millimar C1208, C1216, 1240, C1245, S1840, S1841, X1715, X1745 (in conjunction with cable 7024634)	<b>4102331</b>
<b>817 f</b>	Transmitter for FM 2	Digimar 817 CLM	<b>4102310</b>
<b>817 usb</b>	Adaptor Cable RS232-USB (1 m) incl. Software MarCom Std.	Digimar 817 CLM (in conjunction with cable 7024634)	<b>4102333</b>
<b>RS232 f</b>	Transmitter for FM 2	Millimar C1208, C1216, C1245, S1840	<b>4102311</b>
<b>1082 e</b>	Transmitter for e-Stick	Digimar M814 N/G Multimar 25 ES MarTool 106 ES	<b>4102235</b>
<b>1082 f</b>	Transmitter for FM 2	Digimar M814 N/G Multimar 25 ES MarTool 106 ES	<b>4102307</b>
<b>16 ESv</b>	Data Connection Cable RS232C (2 m)	Digimar 814 G, 814 N Multimar 25 ES MarTool 106 ES	<b>4102510</b>
<b>Opto usb</b>	Adaptor Cable RS232-USB (1 m) incl. Software MarCom Std.	Digimar M814 ( in conjunction with cable 4102510) Multimar 25 ES ( in conjunction with cable 4102510) MarTool 106 ES ( in conjunction with cable 4102510)	<b>4102330</b>
<b>800 EWu</b>	Data Connection Cable USB (2 m) incl. Software MarCom Std.	MarCal 31 EW MarTest 800 EW, 800 EWL	<b>4305121</b>
<b>800 EWR</b>	Data Connection Cable RS232C (2 m)	MarCal 31 EW MarTest 800 EW, 800 EWL	<b>4305122</b>
<b>838 usb</b>	Data Connection Cable USB (1,5 m) incl. Software MarCom Std.	Marameter 838 EI, 838 EA	<b>4495079</b>
<b>USB-Hub</b>	USB-Hub 7-fold industrial model		<b>4102553</b>
<b>MC-I</b>	Data Connection Cable USB (0.1 m)	Foot Switch 16 ESf	<b>4102782</b>
<b>16 ESf</b>	Foot Switch to trigger data transmission		<b>4102058</b>
<b>MC-R</b>	Remote control for MarCom		<b>4102221</b>

## Receiver MarConnect i-Stick



Integrated wireless has been approved in: the EU, EFTA, Turkey, USA, Mexico, Canada, Japan, China and Korea.



### Features

- **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 i-Stick 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 i-Stick 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
- Supplied with:  
Software MarCom Standard, Driver

### Technical Data

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

## Accessories

		Order no.
MarCom Prof. 5.0	Software interface	4102212
16 EWRI	Digital Caliper, 0.01 mm, 0 - 150 mm	4103400
16 EWRI	Digital Caliper, 0.01 mm, 0 - 150 mm	4103401
16 EWRI	Digital Caliper, 0.01 mm, 0 - 150 mm	4103402
16 EWRI	Digital Caliper, 0.01 mm, 0 - 150 mm	4103403
16 EWRI	Digital Caliper, 0.01 mm, 0 - 200 mm	4103404
16 EWRI	Digital Caliper, 0.01 mm, 0 - 200 mm	4103405
16 EWRI	Digital Caliper, 0.01 mm, 0 - 300 mm	4103406
16 EWRI	Digital Caliper, 0.01 mm, 0 - 300 mm	4103407
30 EWRI	Digital Depth Gage, 0.01 mm, 0 - 150 mm	4126755
30 EWRI	Digital Depth Gage, 0.01 mm, 0 - 300 mm	4126756
30 EWRI	Digital Depth Gage, 0.01 mm, 0 - 500 mm	4126757
1086 Ri	Digital Indicator, 0.0005 mm, 12.5 mm	4337624
1086 Ri	Digital Indicator, 0.0005 mm, 25 mm	4337625
1086 Ri	Digital Indicator, 0.0005 mm, 50 mm	4337626
1086 Ri	Digital Indicator, 0.0005 mm, 100 mm	4337627
1086 Ri	Digital Indicator, 0.0005 mm, 25 mm	4337628
1086 Ri	Digital Indicator, 0.01 mm, 12.5 mm	4337134
1086 Ri	Digital Indicator, 0.01 mm, 25 mm	4337135
1086 Ri	Digital Indicator, 0.01 mm, 50 mm	4337136
1086 Ri	Digital Indicator, 0.01 mm, 100 mm	4337137
1086 WRi	Digital Indicator, 0.0005 mm, 12.5 mm	4337142
1086 WRi	Digital Indicator, 0.0005 mm, 25 mm	4337143
1086 WRi	Digital Indicator, 0.01 mm, 12.5 mm	4337147
1086 WRi	Digital Indicator, 0.01 mm, 25 mm	4337148
1087 Ri	Digital Indicator, 0.0005 mm, 12.5 mm	4337663
1087 Ri	Digital Indicator, 0.0005 mm, 25 mm	4337665
1087 BRi	Digital Indicator, 0.0005 mm, 12.5 mm	4337664



## Receiver MarConnect e-Stick



The e-Stick Receiver and Transmitter has been approved in: the EU, EFTA, Turkey, USA, Mexico and Canada.

### Features

- 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
- Supplied with: Software MarCom Standard, Driver

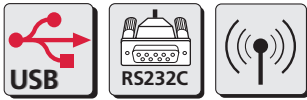
### Technical Data

Frequency band	MHz	2400
Radio range		up to 6 m
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, 1082 e
<b>Order no.</b>		<b>4102230</b>

### Accessories

		For measuring instrument	Order no.
<b>MarCom Professional 5.0</b> <b>16 EWe</b>	Software-Interface		<b>4102212</b>
	Transmitter for e-Stick	MarCal 16 ER, 16 EWR, 16 EWV, 30 EWR, 30 EWN Digimar 814 SR Micromar 40 EWR, 40 EWS, 40 EWV, 44 EWR, 46 EWR MarCator 1075 R, 1086 R, 1087 R, 1087 BR MarSurf PS1	<b>4102231</b>
<b>2000 e</b>	Transmitter for e-Stick	Digimar 816 CL MarCator 1088 / 1088 W Millimes 2000, 2001, 2100, µMaxµm // Millimar C1200	<b>4102232</b>
<b>RS232 e</b>	Transmitter for e-Stick	Millimar C1208, C1216, C1245, S1840 Digimar 817 CLM	<b>4102233</b>
<b>1082 e</b>	Transmitter for e-Stick	Digimar M814 N/G Multimar 25 ES MarTool 106 ES	<b>4102235</b>

## Receiver MarConnect FM 2



The FM2 Receiver and Transmitter has been approved in: the EU, EFTA and Turkey.

### Features

- 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
- TWIN receiver for USB and RS232 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
- Supplied with: Software MarCom Standard, Driver, USB-cable

### Technical Data

Number of channels	69
Frequency band	MHz 433
Radio range	up to 100 m (depending on the working environment)
Number of connectable wireless receivers FM	1
Number of connectable transmission modules for wireless receiver FM	100
For measuring instrument	Transmission modules 16 EXf, 1082 f, 2000f, 817 f, RS232 f
<b>Order no.</b>	<b>4102305</b>

## Receiver MarConnect FM 2

### Accessories

		For measuring instrument	Order no.
<b>MarCom Professional 5.0</b>	Software Interface		<b>4102212</b>
<b>16 EXf</b>	Transmitter for FM 2	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	<b>4102306</b>
<b>1082 f</b>	Transmitter for FM 2	Digimar M814 N/G Multimar 25 ES MarTool 106 ES	<b>4102307</b>
<b>2000 f</b>	Transmitter for FM 2	Digimar 816 CL, Millimar C 1200 MarCator 1088 / 1088 W Millimes 2000, 2001, 2100, µMaxum //	<b>4102309</b>
<b>817 f</b>	Transmitter for FM 2	Digimar 817 CLM	<b>4102310</b>
<b>RS232 f</b>	Transmitter for FM 2	Millimar C1208, C1216, C1245, S1840	<b>4102311</b>
<b>HTF 1</b>	Hand switch for remote control		<b>4102314</b>



16 EXf



2000 f

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



### Features

- For connection to Digimatic-compatible interfaces and evaluation devices

### Technical Data

	Cable length m	For measuring instrument	Order no.
<b>16 EWd</b>	2	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	<b>4102915</b>
<b>2000 d</b>	2	Digimar 816 CL MarCator 1088, 1088 W Millimes 2000, 2001, 2100, µMaxum // Millimar C1200	<b>4346021</b>
<b>838 di (A)</b>	1.5	Marameter 838 Ei, 838 EA	<b>4495083</b>