

Wireless to the result

Best performance in every step

Mahr's portfolio of wireless devices offers you maximum mobility for your measuring tasks. The wireless solution of Integrated Wireless measuring instruments means you can measure without impediment. Mahr measuring instruments are ideal tools for every manufacturing environment, reliably delivering the performance you have come to expect from state-of-the-art handheld measuring instruments.

Save costs

Use your wireless connection for the price of a cable. Purchasing a USB receiver stick (i-Stick) for your computer allows you to operate up to eight measuring devices simultaneously and saves you the additional cost of a connecting cable.

Unclutter

Keep your workplace clear of restrictive data cables.

ID transmission

Serial and order numbers are sent out by the measuring device and stored in the recorded measurement log.



MarConnect | Measuring data processing

Reliable

With integrated transmission, visual feedback is provided verifying data transmission. Error message signifies loss of data connector.



Maximum mobility

Measure autonomously and without limits. Thanks to their wireless, compact system, Mahr measuring instruments allow precise measuring – even in the machine or on difficult-to-reach workpieces.

6 meter range

8 measuring instruments simultaneously per i-Stick receiver

Integrated transmitter

Eliminate hazards such as cable breakage and wear.



Free software

Benefit from the MarCom Professional 5.3 interface software and transfer the measurement data individually and conveniently to your Windows applications or CAQ software.

81 device versions for every measuring task



It couldn't be easier!

Scan the QR code and see how Integrated Wireless handheld measuring instruments are used in practice.

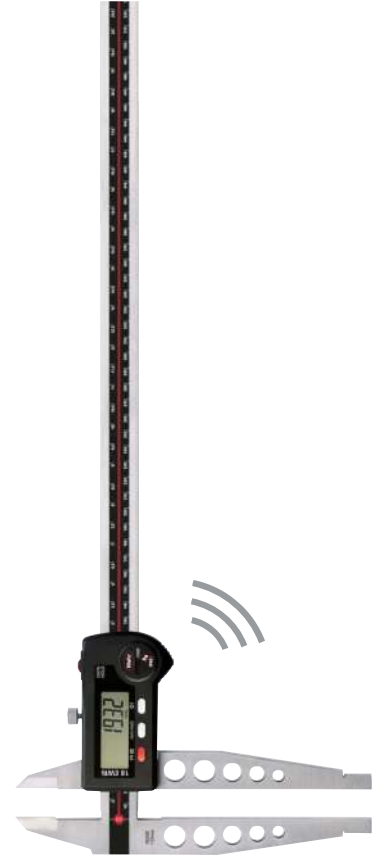
MarCom Professional | Software

Your interface for **even greater performance**

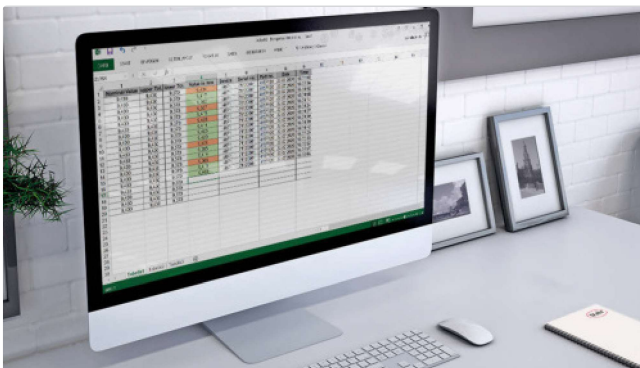
Two steps to the goal: combine your Integrated Wireless instruments with our multifunctional MarCom Professional software. This versatile interface tool combines data acquisition and data transfer with your data processing. How you process the collected data is entirely up to you – for maximum flexibility, choose from a range of output formats.

Enjoy maximum individuality at the workplace with a free choice of output medium and four output formats:

- Virtual interface box: CAQ/SPC software
- Intelligent Excel interface: Microsoft Excel
- Emulation keyboard: any Windows software
- Text file: flexible data processing



MarCal 18 EWri workshop caliper with Integrated Wireless



MarCom Professional is IATF ready and features a comprehensive range of functions for data transfer and data processing.





Micromar 40 EWRi micrometer with Integrated Wireless



MarSurf M 310 roughness measuring instrument with Bluetooth® stick

Improved functions:

- Additional data: Additional values are transferred to supplementary columns (name, serial number, item number, date and time)
- Device parameters can now be preset: reference values (preset, tolerance limits, warning limits in %), as well as, function locks can be queried and changed on the instrument
- Improved Excel functionality:
 - Easily undo the last data transfer – right in the program with a simple click
 - Adapted column and row names: Z1S1 reference style for use with Excel as in practice

Powerful and user-friendly due to continual updates!

Perfectly coordinated: MarCom Professional is the ideal data transfer software for all your quality assurance and production needs then start new sentence It is perfectly equipped from the Integrated Wireless product line. A number of additional functions offer users maximum convenience when recording and transferring measurements.

3x

faster configuration

Save time: conveniently configure your measuring instruments via PC interface and eliminate the need for manually setting the instrument.

99 %

more reliable

Avoid operating errors: all information is automatically transferred and assigned thanks to the automatic identification of measurements and serial number transfers.

New features:

- IATF ready: transfers and displays the measuring equipment ID and item and serial number to clearly allocate the measuring equipment to the measurements
- Tab settings in up to 3 areas: settings, device parameters and goal
- Scalable measurement value display
- Manually sort the device overview using drag-and-drop



FEATURES

- Direct transfer of measuring values into MS Excel (version 97 or later), into SPC software via virtual interface box (MUX 50 format) (professional) or into a text file or via a keyboard code
- The measuring values for each connected measuring instrument can be copied into a separate column, table or folder in Excel
- USB hubs can also be connected as a measuring instrument interface
- Clear depiction of the selected measuring devices by means of icons
- Manual sorting of the device overview using drag-and-drop
- Scalable measurement value display
- Configure device parameters easily. Reference values (preset, tolerance limits, warning limits) as well as function locks can be queried and changed on the instrument
- Freely definable and configurable measurement cycles
- Flexible, user-friendly transfer of measuring values via the 'Data' button on the measuring device or data cable or via a PC keyboard, timer, foot switch connected to a USB interface or via wireless remote control
- Additional data: Transfers and displays the measuring equipment ID and item and serial number to clearly allocate the measuring equipment to the measurements
- Easily undo the last data transfer – right in the program with a simple click
- **Package contains:** driver, instruction manual
- **Software:** MarCom Professional free download: www.mahr.com/marcom (only for Mahr data cables and wireless systems with USB and RS–232 interface)



TECHNICAL DATA

Type	MarCom Professional
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.	Description	Type	For measuring instrument
4102220	Receiver for instruments with Integrated Wireless	i-Stick	MarCal 16 EWri / 30 EWri, MarCator 1086 Ri / 1086 WRi / 1087 Ri / 1087 BRi, Micromar 40 EWri / 40 EWri-L, Millimes 2000 W(i), 2001 W(i), Digimar 817 CLT
4102230	e-Stick 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	USB Bluetooth adapter	16 EWe	MarCal 16 ER, 16 EWR, 16 EWV, 18 EWR, 30 EWR, 30 EWN Digimar 814 SR Micromar 40 EWR (≤2017), 40 EWS, 40 EWW, 44 EWR, 46 EWR MarCator 1075 R, 1086 R, 1087 R, 1087 BR MarSurf PS1, PS10
4102306	16 EWe Transmitter for e-Stick	16 EXf	MarCal 16 ER, 16 EWR, 16 EWV, 18 EWR, 30 EWR, 30 EWN Digimar 814 SR Micromar 40 EWR (≤2017), 40 EWS, 40 EWW, 44 EWR, 46 EWR MarCator 1075 R, 1086 R, 1087 R, 1087 BR
4102357	16 EXf Transmitter for FM 2	16 EXu	MarCal 16 ER, 16 EWR, 18 EWR, 30 EWR, 30 EWN Digimar 814 SR Micromar 40 ER, 40 EWR (≤ 2017), 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
3003856	16 EXu Data connection cable USB (2 m)	USB BT	MarSurf M 310

ACCESSORIES

Order no.	Description	Type	For measuring instrument
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 (≤ 2017), 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
4102232	2000 e Transmitter for e-Stick	2000 e	Digimar 816 CL MarCator 1088 / 1088W Millimes 2000, 2001, 2100, µMaxum II Millimar C1200
4102309	2000 f Transmitter for FM 2	2000 f	Digimar 816 CL, Millimar C 1200 MarCator 1088 / 1088W Millimes 2000, 2001, 2100, µMaxum II
4346023	2000 USB data connection cable USB (2 m)	2000 USB	Digimar 816 CL, Millimar C1200 MarCator 1088, 1088 W Millimes 2000, 2001, 2100, µMaxum II
4346020	Data connection cable RS232C (2 m)	2000 r	Digimar 816 CL, Millimar C1200 MarCator 1088, 1088 W Millimes 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	RS-232 e Transmitter for e-Stick	RS-232 e	Millimar C1208, C1216, C1245, S1840, Digimar 817 CLM
4102331	Millimar - USB Adapter cable RS-232-USB (0,2 m)	Millimar - USB	Millimar C1208, C1216, 1240, C1240, C1245, S1840, S1841, X1715, X1741, 832 (in conjunction with cable 7024634)
4102310	817 f Transmitter for FM 2	817 f	Digimar 817 CLM
4102333	817 USB Adapter cable RS232-USB (0,2 m)	817 USB	Digimar 817 CLM (in conjunction with cable 7024634)
4102311	RS232 f Transmitter for FM 2	RS232 f	Millimar C1208, C1216, C1245, S1840
4102307	1082 f 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 (0,2 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
4102553	USB-Hub 7-fold industrial model	USB-Hub	
4102782	MC-I adaption cable (for foot switch via MarCom): jack plug Ø 3.5 mm/USB (0,1 m)	MC-I	Foot switch 16 ESf
4102058	Foot switch to trigger data transmission	16 ESf	
4102221	Wireless remote control for MarCom	MC-R	
4102603	Data cable USB bi-directional (2 m)	DK-U1	Micromar 40 EWR (≥ 2018), Millimar C 1202, MarSurf M310, Millimes 2000 W(i), 2001 W(i), Digimar 817 CLT
4102606	Interface adapter with data cable Digimatic (2 m)	DK-D1	Micromar 40 EWR (≥ 2018), Millimar C 1202, Millimes 2000 W(i), 2001 W(i)





FEATURES

- Unlike conventional wireless solutions, which have a large external transmitter with separate battery, the transmitter in integrated wireless is fully integrated.
- The lack of external cables and modules allows for high mobility
- With Integrated Wireless, you can transfer your measured values to the PC using the i-Stick
 - 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
- Safe and reliable data transfer
 - Instruments display messages confirming data has been received
 - Confirms being in range of i-Stick
- Long battery life
 - Negates need for additional battery
- With Integrated Wireless, you can connect up to 8 measuring instruments per i-Stick receiver
 - Expensive interface boxes are no longer necessary
- **Package contains:** i-Stick wireless receiver, driver
- **Software:** MarCom Professional free download: www.mahr.com/marcom (only for Mahr data cables and wireless systems with USB and RS-232 interface)



TECHNICAL DATA

Order no.	4102220	
Number of channels		3
Frequency band	MHz	2400
Radio range		Up to 6 m
Type		i-Stick
Number of connectable wireless receivers for i-Stick		4
Number of connectable measuring instruments with Integrated Wireless		32
For measuring instrument		MarCal 16 EWri / 18 EWri / 30 EWri MarCator 1086 Ri / 1086 WRi / 1087 Ri / 1087 BRi Micromar 40 EWri / 40 EWri-L Millimes 2000 W(i), 2001 W(i) Multimar 25 EWri Digimar 817 CLT

MarConnect i-Stick

Receiver for instruments with Integrated Wireless

ACCESSORIES

Order no.	Description	Type
4103400	Digital caliper, 0 – 150 mm, 0.01 mm	16 EWRI
4103401	Digital caliper, 0 – 150 mm, 0.01 mm	16 EWRI
4103402	Digital caliper, 0 – 150 mm, 0.01 mm	16 EWRI
4103403	Digital caliper, 0 – 150 mm, 0.01 mm	16 EWRI
4103404	Digital caliper, 0 – 200 mm, 0.01 mm	16 EWRI
4103405	Digital caliper, 0 – 200 mm, 0.01 mm	16 EWRI
4103406	Digital caliper, 0 – 300 mm, 0.01 mm	16 EWRI
4103407	Digital caliper, 0 – 300 mm, 0.01 mm	16 EWRI
4112571	Digital workshop caliper, 0 – 300 mm, 0.01 mm	18 EWRI
4112572	Digital workshop caliper, 0 – 500 mm, 0.01 mm	18 EWRI
4112573	Digital workshop caliper, 0 – 750 mm, 0.01 mm	18 EWRI
4112574	Digital workshop caliper, 0 – 1000 mm, 0.01 mm	18 EWRI
4126755	Digital depth gage, 0 – 150 mm, 0.01 mm	30 EWRI
4126756	Digital depth gage, 0 – 300 mm, 0.01 mm	30 EWRI
4126757	Digital depth gage, 0 – 500 mm, 0.01 mm	30 EWRI
4119050	Digital universal calipers, 0 – 300 mm, 0.01 mm	25 EWRI
4119051	Digital universal calipers, 0 – 600 mm, 0.01 mm	25 EWRI
4119052	Digital universal calipers, 0 – 1000 mm, 0.01 mm	25 EWRI
4119053	Digital universal calipers, 0 – 1250 mm, 0.01 mm	25 EWRI
4337624	Digital indicator, 0.0005 mm, 12.5mm	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, 12.5mm	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, 12.5mm	1086 WRi
4337143	Digital indicator, 0.0005 mm, 25 mm	1086 WRi
4337147	Digital indicator, 0.01 mm, 12.5mm	1086 WRi
4337148	Digital indicator, 0.01 mm, 25 mm	1086 WRi
4337663	Digital indicator, 0.0005 mm, 12.5mm	1087 Ri
4337665	Digital indicator, 0.0005 mm, 25 mm	1087 Ri
4337664	Digital indicator, 0.0005 mm, 12.5mm	1087 BRi
4157100	Digital bracket micrometer screw, 0 – 25 mm	40 EWRI
4157101	Digital micrometer, 25 – 50 mm	40 EWRI
4157102	Digital bracket micrometer screw, 50 – 75 mm	40 EWRI
4157103	Digital bracket micrometer screw, 75 – 100 mm	40 EWRI
4346701	Inductive dial comparator, $\pm 1 \mu\text{m}$	2000 Wi
4346801	Inductive dial comparator, $\pm 1 \mu\text{m}$	2001 Wi
4429600	Digimar 0 – 350 mm	817 CLT
4429601	Digimar 0 – 600 mm	817 CLT
4429602	Digimar 0 – 1000 mm	817 CLT



16 EWRI;
800 SR



30 EWRI



1086 Ri



40 EWRI



1087 Ri



FEATURES

- For upgrading all Mahr handheld measuring instruments with data interface
- Wireless measuring value transfer from measuring equipment to PC
- Secure data transfer thanks to receipt of measuring value confirmation from PC to measuring equipment
- Optical confirmation of receipt at transmission module
- Compact transmission modules without external antenna
- Bidirectional transmission path (remote enquiry from measuring equipment)
- Radio frequency of 2400 MHz
- **Package contains:** e-stick wireless receiver, driver
- **Software:** MarCom Professional free download: www.mahr.com/marcom (only for Mahr data cables and wireless systems with USB and RS-232 interface)



Application:

- Wireless data transmission from a measuring instrument to a PC

TECHNICAL DATA

Order no.	4102230	
Frequency band	MHz	2400
Radio range		Up to 6 m
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.	Description	Type	For measuring instrument
4102231	16 EWe Transmitter for e-Stick	16 EWe	MarCal 16 ER, 16 EWR, 16 EWW, 18 EWR, 30 EWR, 30 EWN Digimar 814 SR Micromar 40 EWR (≤2017), 40 EWS, 40 EWW, 44 EWR, 46 EWR MarCator 1075 R, 1086 R, 1087 R, 1087 BR MarSurf PS1, PS10
4102232	2000 e Transmitter for e-Stick	2000 e	Digimar 816 CL MarCator 1088 / 1088W Millimes 2000, 2001, 2100, µMaxum II Millimar C1200
4102233	RS-232 e Transmitter for e-Stick	RS-232 e	Millimar C1208, C1216, C1245, S1840, Digimar 817 CLM



16 EWe



2000 e

MarConnect Opto USB / Millimar - USB / 817 USB / 16 EXu / DK-U1 / MC-I / 800 EWu / 2000 USB / 838 USB



Adapter cable RS232-USB

FEATURES

- For connecting the measuring instrument to a PC
- Data transfer to MarCom or other applications via virtual communication interface
- **Package contains:** USB cable, driver
- **Software:** MarCom Professional free download: www.mahr.com/marcom (only for Mahr data cables and wireless systems with USB and RS-232 interface)



Application:

- Data recorded with PC, laptop or tablet using MS-Windows operating system

TECHNICAL DATA

Order no.	Cable length	Type	For measuring instrument
	m		
2121428	2		Maxum III (E2)
4102330	0.2	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	0.2	Millimar - USB	Millimar C1208, C1216, 1240, C1240, C1245, S1840, S1841, X1715, X1741, 832 (in conjunction with cable 7024634)
4102333	0.2	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 (≤ 2017), 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
4102603	2	DK-U1	Micromar 40 EWR (≥ 2018) Millimar C 1202 MarSurf M310 Millimes 2000 W(i), 2001 W(i)
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, μ Maxum II
4495079	1.5	838 USB	Marameter 838 EI, 838 EA

ACCESSORIES

Order no.	Description	Type
4102221	Wireless remote control for MarCom	MC-R
4102553	USB-hub 7-fold industrial model	USB-hub
4102058	Foot switch to trigger data transmission	16 ESf



FEATURES

- 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 (only for Mahr data cables and wireless systems with USB and RS-232 interface)



Application:

- Data collection with RS232 compatible devices

TECHNICAL DATA

Order no.	Cable length	Type	For measuring instrument
	m		
4102410	2	16 EXr	MarCal 16 ER, 16 EWR, 18 EWR, 30 EWR, 30 EWN Digimar 814 SR Micromar 40 ER, 40 EWR (≤ 2017), 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
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 DK-D1 / 16 EWd / 2000 d / 838 di (A)



Interface adapter with data cable Digimatic

FEATURES

- For connection to Digimatic compatible interfaces and evaluation equipment



Application:

- Data collection with Digimatic-compatible devices

TECHNICAL DATA

Order no.	Cable length	Type	Inputs	For measuring instrument
	m			
2239035	2		Footswitch	Maxµm III dial comparator with 6-pin data output
2239037	2			Maxum III µ Indicator with 10-pin output port
4102606	2	DK-D1		Micromar 40 EWR (≥ 2018) Millimar C 1202 Millimes 2000 W(i), 2001 W(i)
4102915	2	16 EWd		MarCal 16 ER, 16 EWR, 18 EWR, 30 EWR, 30 EWN Digimar 814 SR Micromar 40 ER, 40 EWR (≤ 2017), 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