



M1 WAVE BORE GAUGES

MARPOSS introduces M1 WAVE, an innovative product for bore measurement, equipped with the latest Wireless *Bluetooth*® techno-

logy. M1 WAVE, representing the most advanced manual bore gauge manufactured by MARPOSS under the "M1 STAR" brand name, offers new and advanced solutions to the most demanding users.

The standard EBG (Electronic Bore Gauge), with integrated transducer, can be connected to various electronic interfaces by means of the wireless *Bluetooth* transmission technology. The new M1 WAVE standard handle contains the *Bluetooth* transmitter and power supply batteries.

By simply pressing the button on top of the handle, the bore gauge can communicate in real time with the electronic display, showing the measured value. By means of the same button it is possible to acquire data in order to perform statistical operations, and to control advanced cycles or guided sequences.

Due to the absence of mechanical transmission errors, the M1 WAVE guarantees excellent repeatability of 0,5 micron or .000020 inch.

The IP67 protection rating of the entire M1 WAVE bore gauge guarantees reliability of the device when used in severe shop floor environments.

ELECTRONIC INTERFACES

The M1 WAVE communicates wirelessly to Bluetooth enabled MARPOSS electronic displays and measurement units, such as: Merlin, E9066 and E4N Wave. Communication software, developed by MARPOSS, is also available to allow connection of the M1 Wave to commercial computers.

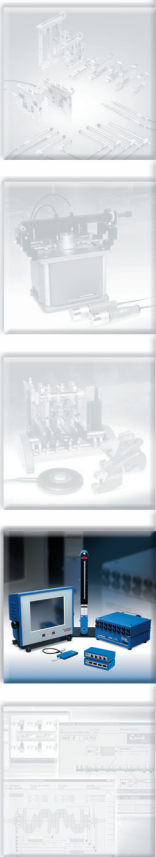


MERLIN

E9066T

E4N WAVE

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TECHNICAL SPECIFICATION OF THE EBG PLUG GAUGE (*)

DESCRIPTION	unit	DIAMETER RANGE				
		3 - 10,5 mm		10,5 - 26 mm		26 - 300 mm
		3 - 8 mm	8 - 10,5 mm	10,5 - 13 mm	13 - 26 mm	
WORKING RANGE ⁽¹⁾	mm	Standard: 0,070	Standard: 0,100	Standard: 0,100 (Max ⁽²⁾ : 0,200)	Standard: 0,120 (Max ⁽²⁾ : 0,200)	Standard: 0,150 (Max ⁽²⁾ : 0,300)
MEASURING FORCE	N	[0,6 ± 0,1]		[0,7 ± 0,2]	[0,7 ± 0,2]	[0,9 ± 0,2]
REPEATABILITY (2,77σ)	μm	≤ 0,5				
ZERO THERMAL DRIFT	μm/C°	≤ 0,3				

(*) For further information on the EBG plug gauge, please consult the M1 STAR EBG catalogue.

(1) WORKING RANGE: based on the tolerance range, of the feature, measurable by the plug-gauge.

(2) By unscrewing the contacts fastened to the measuring armset by means of a screw with Helicoil, the measuring ranges can be extended up to the values indicated in the table..

TECHNICAL SPECIFICATION OF THE WAVE HANDLE

BATTERIES			PROTECT. DEGREE	COMMUNICATION DISTANCE	WEIGHT	OTHER FEATURES...
TYPE	MIN. DURATION	RECHARGE	IP67	up to 10m (and more)	540g	Bluetooth
Alkaline	220 hours	X				Auto-shutdown (programmable)
NI-MH	180 hours	external				Fast plug gauge retooling
						Real time measurement transmission

- **BLUETOOTH TECHNOLOGY:** the M1 WAVE product is in compliance with EMC and FCC standards, as well as several other local and national regulations.
- **POWER SUPPLY OF THE UNIT:** M1 WAVE can be powered both with "C standard" alkaline batteries and with NI-MH rechargeable batteries (to be recharged externally with a commercial battery recharger). Access to the batteries is quick and replacement is easy and safe. Different options to recharge the batteries will be available in the future.
- **DURATION OF THE BATTERIES:** M1 WAVE can work with no shutdown for approximately 220 hours (with alkaline batteries). The duration of the batteries can be further increased by means of the programmable auto-shutdown option. In this way battery consumption can be extremely reduced, bringing their total life up to several months in normal operating conditions
- **COMMUNICATION DISTANCE:** M1 WAVE can communicate with electronic interfaces up to 10 meters of distance, in all sorts of conditions. Longer distances can be covered depending on the obstacles encountered in the working environment.

For a full list of address locations, please consult the Marposs official website:
www.marposs.com - www.testar.com

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Marposs has an integrated system to manage the Company quality, the environment and safety, attested by ISO 9001, ISO 14001, OHSAS 18001 and QS9000 T&E certifications. Marposs has further been qualified EAQF 94 and has obtained the Q1-Award.

