



Wigaugage + MPC

Wireless bore gauge solution





The freedom to roam with Metro's new Wigauge combined with the MPC Light Software brings increased efficiency to gauging stations and work practices. The ability to work without the obstacles that cables put onto conventional electronic gauges means that the gauging process is not restricted by cable length and routing, or the risk of cable damage.

The audio and visual Pass/Fail' indicators on the Wigauge give the operator the opportunity to decide whether or not to remove a component from a machine tool while the reading is logged into a system that can be up to 15 metres away. The rugged construction and class 1 Bluetooth® communication ensure that it is able to work reliably in the often hostile environment of an engineering machine shop.

Post process gauging stations become more flexible and with the ability to connect up to 7 WBG's to a single receiver, cable tangles are eliminated in multi point gauging applications.



MPC software can be supplied as an option of the Wigauge®. It allows to display measurements with barmeters and numerical values.

Barmeter's color change in function of the tolerances entered and allows an easy and fast reading of the measurement results.

Main characteristics

- 10 mm & 6 mm Diameter fixing threads (as used on most popular Gauge Heads)
- Up to 0.1 µm resolution (user selectable)
- Up to 15 Metre Data transmission, via Class 1 Bluetooth®
- Up to 7 WBG connected to a single system
- 10 hours battery life (based on continuous data transmission)
- Fast battery recharge
- IP 65 protection
- Pass/Fail range lamps
- Audio indication of data transmission

Technical characteristics

Measurement Performance

Internal Transducer Mechanical Travel	11 mm
Internal Transducer Measurement Range	10 mm
Internal Transducer Pre travel	0.15 mm
Internal Transducer –Accuracy	0.1 µm + 0.1%D (Where D= displacement in mm)
Internal Transducer Tip Force	1.2 N ± 20% @ mid-position
Hand tool Accuracy	Dependent on gauge head fitted
Hand Tool repeatability	Dependent on gauge head fitted
Resolution	Down to 0.1 µm (user selectable)

Bluetooth Performance

Reading Rate	Streaming Mode: 67 readings per second maximum. (Can be set to lower data rates by controller)
Range	The hand tool is a Class 1 Bluetooth® device which has a range of 100 m. However in a normal industrial environment a range of 15 m is most likely.

Battery Life

Supplied battery pack	10 hours based on continuous data transmission
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Functionality

Auto Power Down	Auto power down can be set to either OFF or from 1 to 600 seconds.
Zero	The reading can be zeroed or preset by a command from the controller or handtool button
Measurement Type	The WBG can be set to Normal, MAX, MIN or DIFF by a command for the controller or using the WBG buttons.
Zero/Preset	The reading can be zeroed or preset by a command from the controller or using the WBG buttons
Scaling	The reading can be scaled by a command from the controller

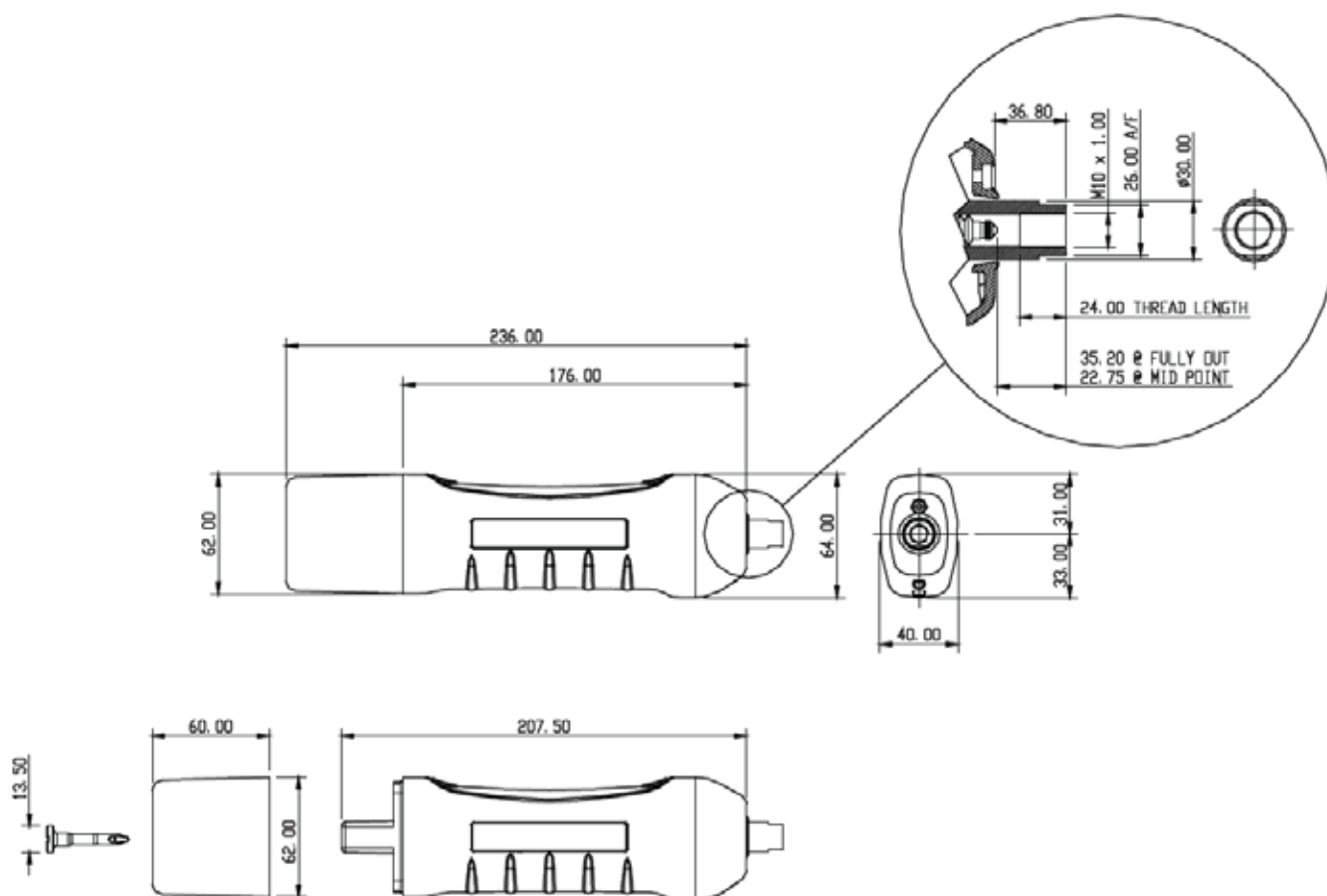
User Interface

Controls	Two buttons.
Indications	Buttons illuminate to indicate different criteria, including Pass/Warning/Fail range Lamps, Low Battery power and Bluetooth® status

Environmental

Sealing	IP65
Operating Temperature	+10 °C to +50 °C
Storage Temperature	0 °C to + 60 °C
EMC - Immunity	EN61000-6-2:2001 (Radiated Only)
EMC - Emissions	EN61000-6-3:2001 (Radiated Only)

Dimensions



Product references

Item	Reference
Wireless handtool Wigauge®	On demand
MPC Light software	20100
Replaceably Battery Pack for the Wigauge® Handtool	On demand
Adapter to reduce the M10 thread down to M6.	On demand
Charger for the Battery Pack with charge status indication. Includes Mains Lead.	On demand
Class 1 Bluetooth USB Adapter	On demand



Metro
 Rue de la Jonchère
 74420 Boège
 France
 Tel. +33(0)4-50-39-08-49
 Fax. +33(0)4-50-39-08-33
 E-mail : info@metro-fr.com
 Web : <http://www.metro-fr.com>

Your distributor

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