

WiGauge™ Gen1 and Gen 2

Description

The freedom to roam with Solartron's WiGauge™ brings increased efficiency to gauging stations and work practices. The ability to work without the obstacles that cables put into 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. **With the NEW option of a integral LCD display the WiGauge™ offers even more flexibility.**

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

Features

10 mm and 6 mm diameter fixing threads (as used on most popular gauge heads)

LCD Screen option

< 0.1 µm resolution (user selectable)

Up to 15 metre data transmission, via class 1 Bluetooth®

Up to 7 WiGauge™ connected to a single system

10 hours battery life (based on continuous data transmission)

Fast battery recharge

IP65 protection

Pass/fail range lamps

Audio indication of data transmission

 **wigauge™**



Precision. Quality. Reliability

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Technical Specification

Wireless Hand tool Gen 1 and Gen 2 with LCD Display Spring actuated internal 10 mm Probe		WHT/10/S
WHT Performance		
Measurement Range		Depends on Head Fitted
Accuracy		Depends on Head Fitted
Repeatability		Depends on Head Fitted
Resolution		Depends on Head Fitted
Internal Probe Measurement Performance		
Accuracy (% of Reading) (Note 1)		0.06
Repeatability (typical) μm (Note 3)		0.07
Resolution (μm)		0.05
Internal Probe Mechanical Interface		
Pre Travel (mm)		0.15
Post Travel (mm)		0.85
Electronics Interface		
Bluetooth		Class1: Range 15 m
Reading Rate		Up to 67 readings per second
Environmental		
Sealing		IP65 (excluding head interface)
Storage Temperature ($^{\circ}\text{C}$)		-20 to +70
Operating Temperature ($^{\circ}\text{C}$)		5 to 60
EMC Emissions		EN61000-6-3 and EN61326
EMC Immunity		EN61000-6-2 and EN61326
Power		Rechargeable Battery Pack (10 hours continual operation)
Material		
Body		ABS and Nylon
Internal		Stainless Steel
Display (Gen 2 Only)		
Type		Colour LCD
Protection		Acrylic Sealed Cover

Note 1: Accuracy 0.1 μm or % reading whichever greater

Note 2: No Note 2

Note 3: Obtained by repeated operation against a carbide target standard deviation from average (68%)

**Wireless Hand tool Gen 1 and Gen 2 with LCD Display
Spring actuated internal 10 mm Probe**

WHT/10/S

Functionality

Auto Power Down (programmable)
Measurement Types (programmable)

Measurement Modes (programmable)
Tagged Measurements (programmable)

Off or 1 to 600 Seconds
Normal (Current Measurement)
Max
Min
Difference (Max-Min)
Absolute, Zero (Tare) or Preset
Measurement sent to computer is tagged
when control button pressed

Display (Gen 2 Only)

Type
Protection
Configuration
Data (see Display Image)
Limits and Warnings
Other

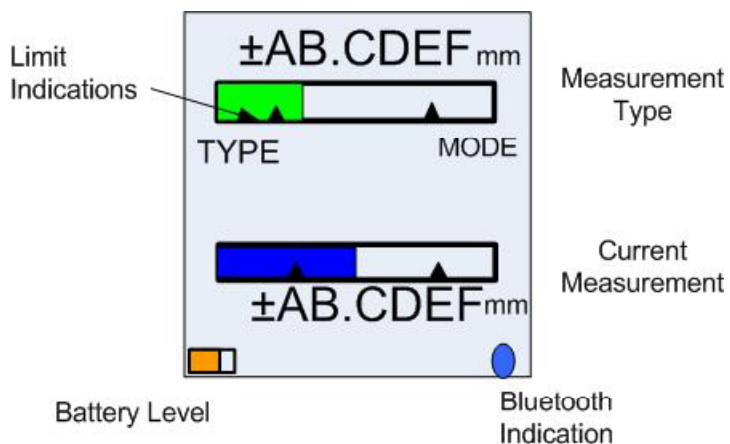
Colour LCD
Acrylic Sealed Cover
Digital and Analogue Representation
Current Live and Mode Reading
Red - Out of Limit
Bluetooth and Battery Status

Controls and LED Indication

Controls
LED Indication Bluetooth
LED Battery Indication
LED Limits

2 Buttons on hand tool body with various
functions
Flashing Blue LED indicates connection
Red Flashing - Warning
Red Continual- Battery requires charging
Green - Measurement In Limit
Red -Measurement Out of Limit

Display Configuration



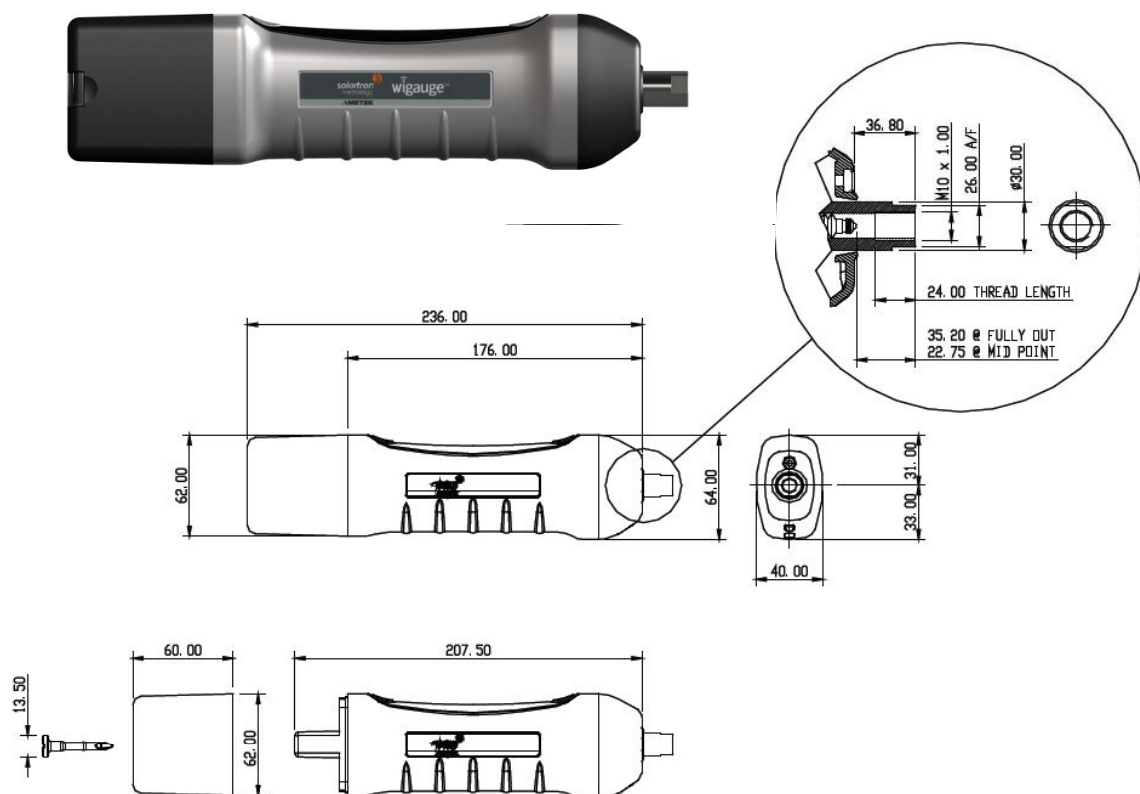
The display can be set to display the range and tolerance of the part being measured. (e.g. 28 ± 0.05 mm)

Setting up the WiGauge™ to communicate with a Bluetooth® enabled Windows® based PC is quick and easy.

Solartron Metrology recommends using the Bluetooth® USB adapter supplied with the WiGauge™ pack to obtain the most reliable data communication to the PC.



The WiGauge™ is compatible with industry standard 10 mm and 6 mm gauge head threads. The internal transducer has a 10 mm measuring range that enables it to cope with any variations in thread or gauge pin length.



ORDERING INFORMATION		
Description	Part Number	Package
Wireless Hand Tool Kit with NO Display	973177K-UK/EU/US	1x WiGauge™, 2x Battery Packs, 1x Charger with
Wireless Hand Tool Kit with LCD Display	973261K-UK/EU/US	Mains Lead, 1x Bluetooth Adapter, 1x Manual/CD
Wireless Hand Tool Kit with NO Display	973176K-UK/EU/US	1x WiGauge™, 2x Battery Packs, 1x Charger with
Wireless Hand Tool Kit with LCD Display	973262K-UK/EU/US	Mains Lead,
Bluetooth® USB Adapter	805811-SX	1x Bluetooth® USB Adapter
Battery Pack	805794-SX	1x Battery Pack
Charger with Mains Lead	911441-UK/EU/US	1x Charger with Mains Lead,
Manual	009317	1x Manual
M6 Adapter	806409-SX	1x M6 Adapter

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Solartron pursues a policy of continuous development. Specifications in this document may therefore be changed without notice.

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