



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 cables 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 multiple WiGauge™ 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®

Multiple 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



**Now available with
Inductive Charging**

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
Accuracy
Repeatability
Resolution

Depends on Head Fitted
Depends on Head Fitted
Depends on Head Fitted
Depends on Head Fitted

Internal Probe Measurement Performance

Accuracy (% of Reading) (Note 1)
Repeatability (typical) μm (Note 3)
Resolution (μm)

0.06
0.07
0.05

Internal Probe Mechanical Interface

Pre Travel (mm)
Post Travel (mm)

0.15
0.85

Electronics Interface

Bluetooth
Reading Rate

Class1: Range 15 m
Class 2 and Class 3 selectable
Up to 67 readings per second

Environmental

Sealing
Storage Temperature ($^{\circ}\text{C}$)
Operating Temperature ($^{\circ}\text{C}$)
EMC Emissions
EMC Immunity
Power (Note 4)

IP65 (excluding head interface)
-20 to +70
5 to 60
EN61000-6-3 and EN61326
EN61000-6-2 and EN61326
Rechargeable Battery Pack

Material

Body
Internal

ABS and Nylon
Stainless Steel

Display (Gen 2 Only)

Type
Protection

Colour LCD
Acrylic Sealed Cover

Note1: Accuracy 0.1 μm or % reading whichever is the greater

Note 2: No Note 2

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

Note 4: Standard battery pack 10 hours continual operation, inductive charged pack 5 hours.

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**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

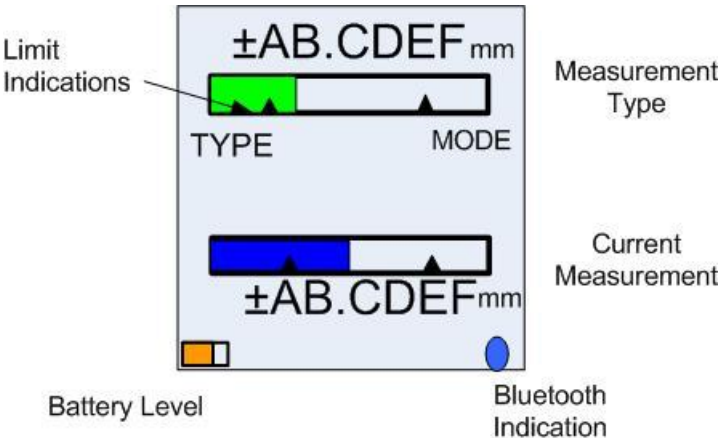
Red Flashing - Warning

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)

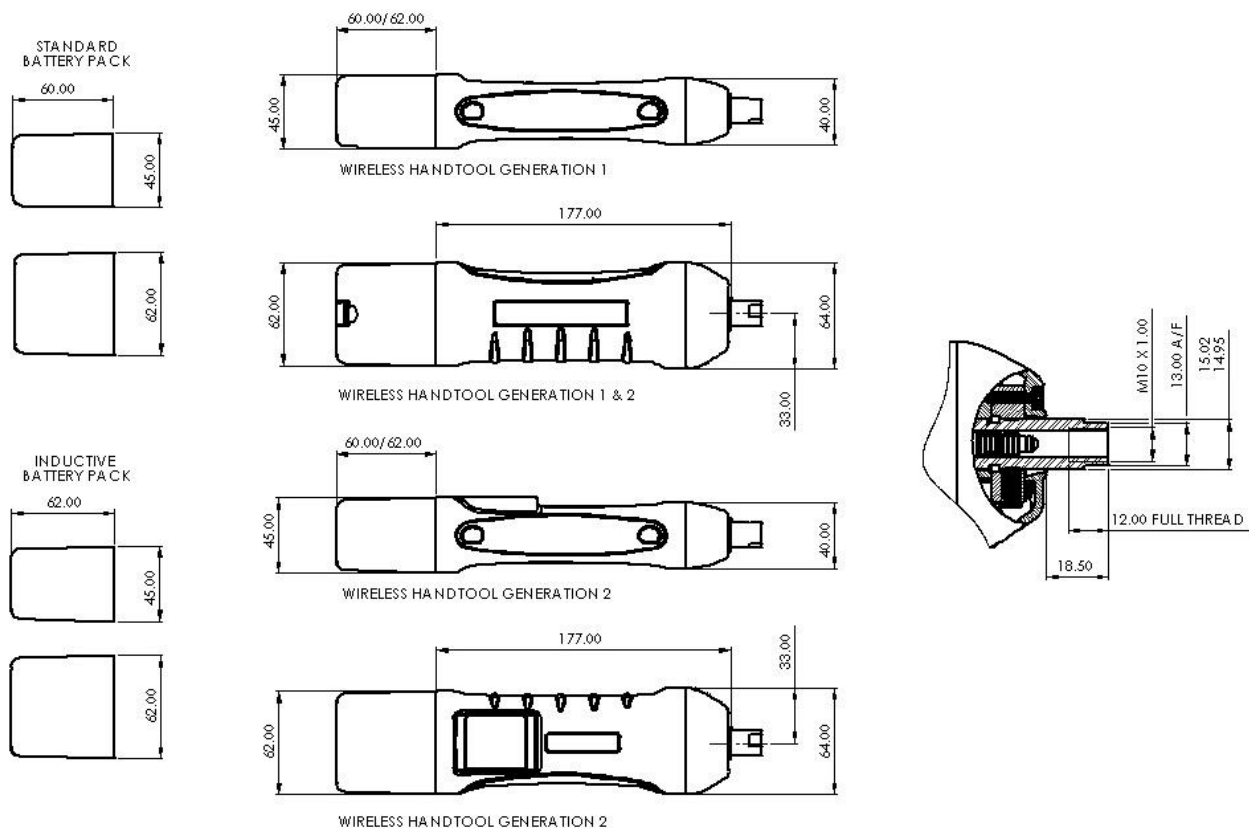
Setting up the WiGauge™ to communicate with a Bluetooth® enabled Windows® based PC is quick and easy.

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



Dimensions (mm)

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.



Battery and Charging Options

The WiGauge™ can be supplied with different battery options and charger options.

Standard Battery Pack

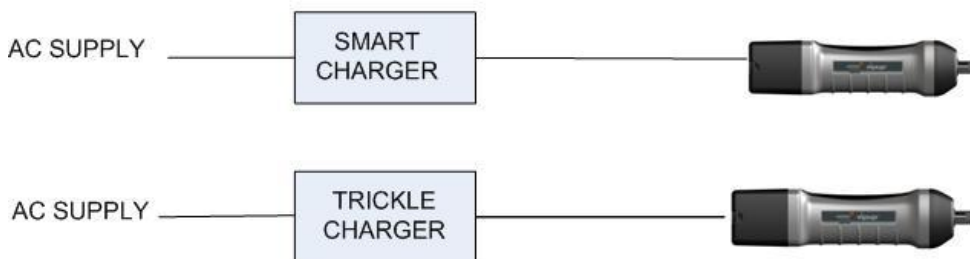
This pack is charged via a connector using either a smart charger or a trickle charger. The smart charger provides rapid charging and then maintains the battery pack with a low level trickle charge. Charge time is typically 2 hours for a fully discharged pack. This charger is best suited to applications where the pack is charged off line. For applications where the tool is left connected to the charger when not in use, the trickle charger option is advised.

Inductive Charged Battery Pack

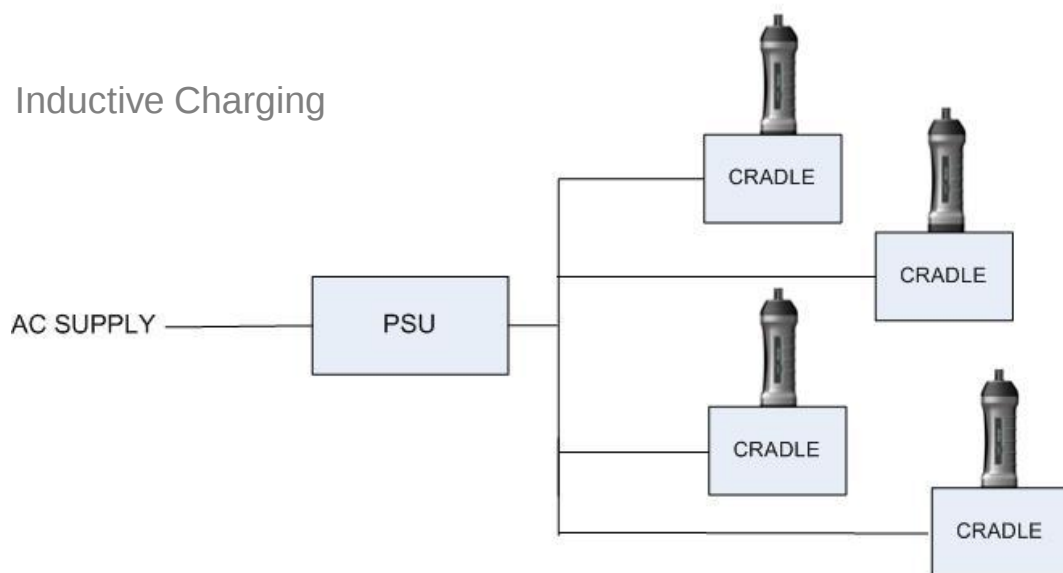
This pack is charged whenever the tool is placed in the inductive charger cradle. Charge time from fully discharged is in the region of 14 hours, however as the tool will normally be left in the charger between operations, the pack will remain charged. The cradle must be connected to the charger PSU module to operate correctly, one PSU module can power up to 4 inductive cradles

The battery packs can be interchanged but must be used with the correct charger. The inductive charger will not charge the standard battery pack. (see product manual for further details)

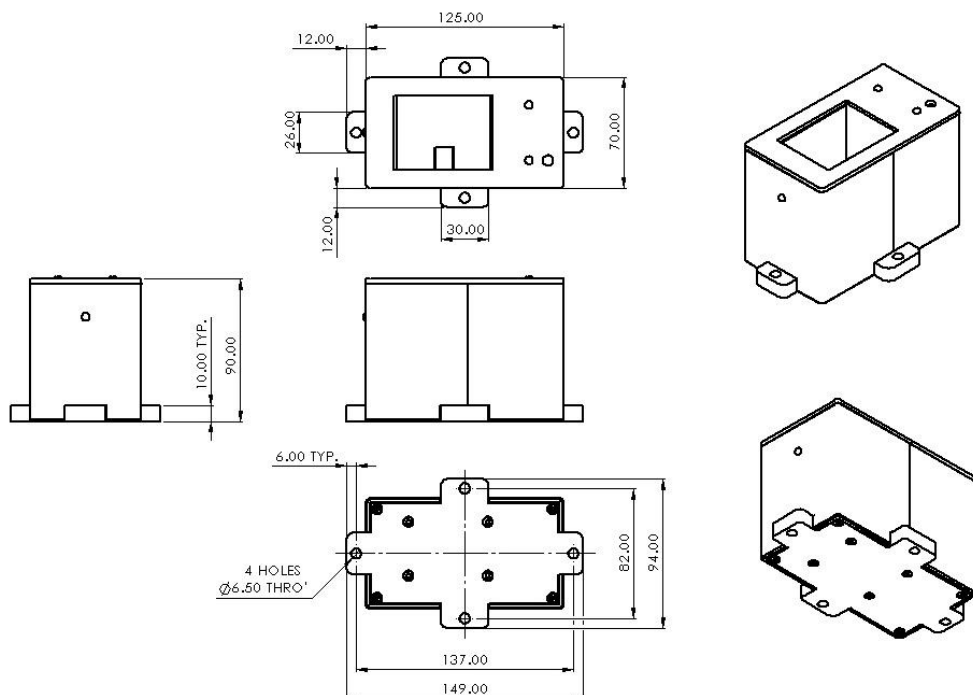
Charging Options Standard Battery Pack



Inductive Charging



Inductive Cradle Dimensions (mm)



ORDERING INFORMATION

Description	Part Number	Package
Wireless Hand Tool with Standard Battery Packs		
Wireless Hand Tool Kit with NO Display	973176K-UK/EU/US	1 x WiGauge™, 2 x Battery Packs, 1 x Charger with Mains Lead
Wireless Hand Tool Kit with LCD Display	973261K-UK/EU/US	1 x WiGauge™, 2 x Battery Packs, 1 x Charger with Mains Lead
Standard Battery Pack	805794-SX	1 x Battery Pack
Smart Charger with Mains Lead	911441-UK/EU/US	1 x Charger with Mains Lead
Trickle Charger with mains lead	911460-UK/EU/US	1 x Charger with Mains Lead
Wireless Hand Tool with Inductive Battery Packs		
Wireless Hand Tool Kit with NO Display	973278	1 x WiGauge™, 1 x Inductive Battery Pack, 1 x Cradle/Charger, 1 x Manual
Wireless Hand Tool Kit with LCD Display	973279	1 x WiGauge™, 1 x Inductive Battery Pack, 1 x Cradle/Charger, 1 x Manual
Inductive Battery Pack	807013-SX	1 x Battery Pack
Inductive Charger/Cradle	807054-SX	1 x Cradle/Charger
Charger PSU	807055-UK/EU/US	1 x PSU for Inductive Charger (Powers up to 4 Cradle/Chargers) with Mains Lead
Accessories		
Bluetooth® USB Adapter	805811-SX	1 x Bluetooth® USB Adapter
Manual	009317	1 x Manual
M6 Adapter	806409-SX	1 x 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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