wigauge™

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

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 Class 2 and Class 3 selectable
Reading Rate	Up to 67 readings per second

Environmental	
Sealing	IP65 (excluding head interface)
Storage Temperature (ºC)	-20 to +70
Operating Temperature (ºC)	5 to 60
EMC Emissions	EN61000-6-3 and EN61326
EMC Immunity	EN61000-6-2 and EN61326
Power (Note 4)	Rechargeable Battery Pack

Material	
Body	ABS and Nylon
Internal	Stainless Steel

Display (Gen 2 Only)	
Type	Colour LCD
Protection	Acrylic Sealed Cover

Note1: Accuracy 0.1um 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.

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

Display (Gen 2 Only)	
Type	Colour LCD
Protection	Acrylic Sealed Cover
Configuration	Digital and Analogue Representation
Data (see Display Image)	Current Live and Mode Reading
Limits and Warnings	Red - Out of Limit
Other	Bluetooth and Battery Status

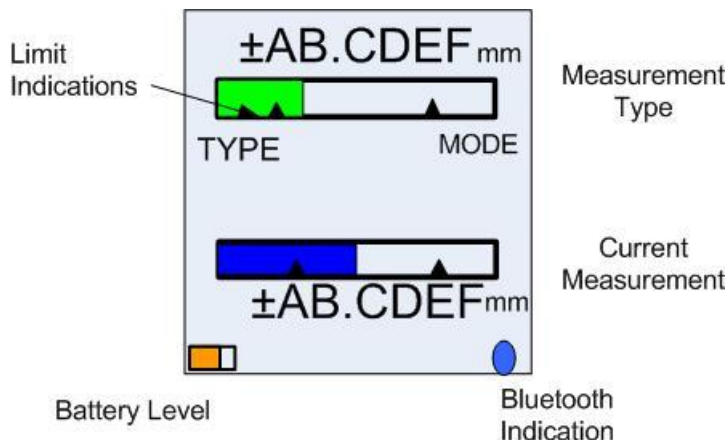| Controls and LED Indication	
Controls	2 Buttons on hand tool body with various functions
LED Indication Bluetooth	Flashing Blue LED indicates connection
LED Battery Indication	Red Flashing - Warning Red Continual- Battery requires charging
LED Limits	Green - Measurement In Limit Red -Measurement Out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

Display Configuration

Limit Indications

±AB.CDEF mm

TYPE   MODE

±AB.CDEF mm

Battery Level

Bluetooth Indication

Measurement Type

Current Measurement

The display can be set to display the range and tolerance of the part being measured. (e.g. 28 ±0.05 mm)
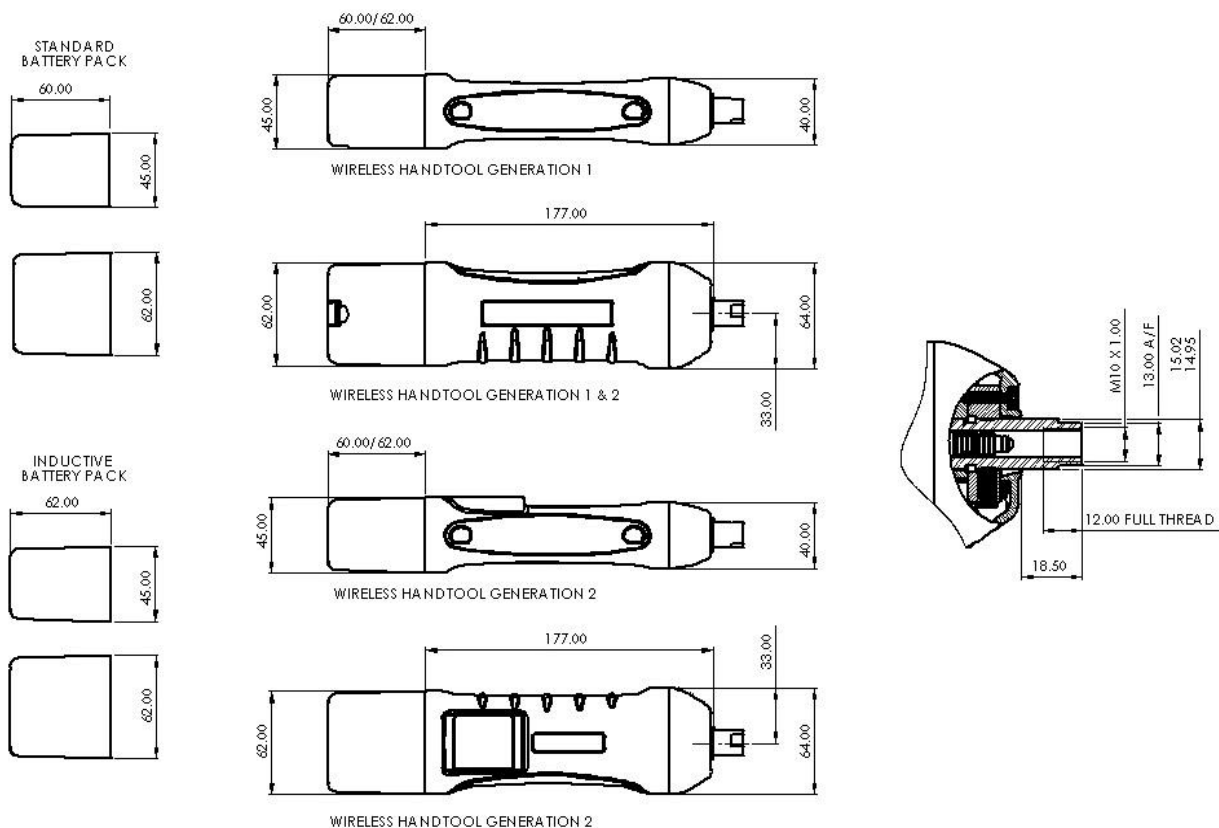
Setting up the WiGauge™ to communicate with a Bluetooth® enabled Windows® based PC is quick and easy.

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.

STANDARD BATTERY PACK
60.00
45.00
62.00

60.00/62.00
45.00
40.00
WIRELESS HANDTOOL GENERATION 1

177.00
62.00
64.00
33.00
WIRELESS HANDTOOL GENERATION 1 & 2

INDUCTIVE BATTERY PACK
62.00
45.00
62.00

60.00/62.00
45.00
40.00
WIRELESS HANDTOOL GENERATION 2

177.00
33.00
62.00
64.00
WIRELESS HANDTOOL GENERATION 2

M10 X 1.00
13.00 A/F
15.02
14.95
12.00 FULL THREAD
18.50

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Battery and Charging Options

The WiGauge™ can be supplied with different battery options and charger options.
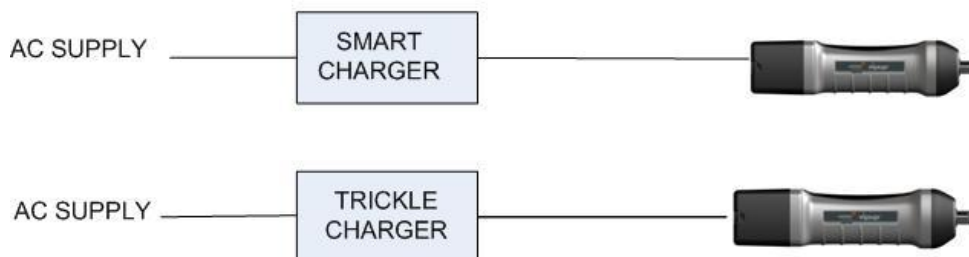
Standard Battery Pack
This pack is charged via a connector using either a smart charger or a trickle charger. The smart charger provides rapid charging and then maintains the battery pack with a low level trickle charge. Charge time is typically 2 hours for a fully discharged pack. This charger is best 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.
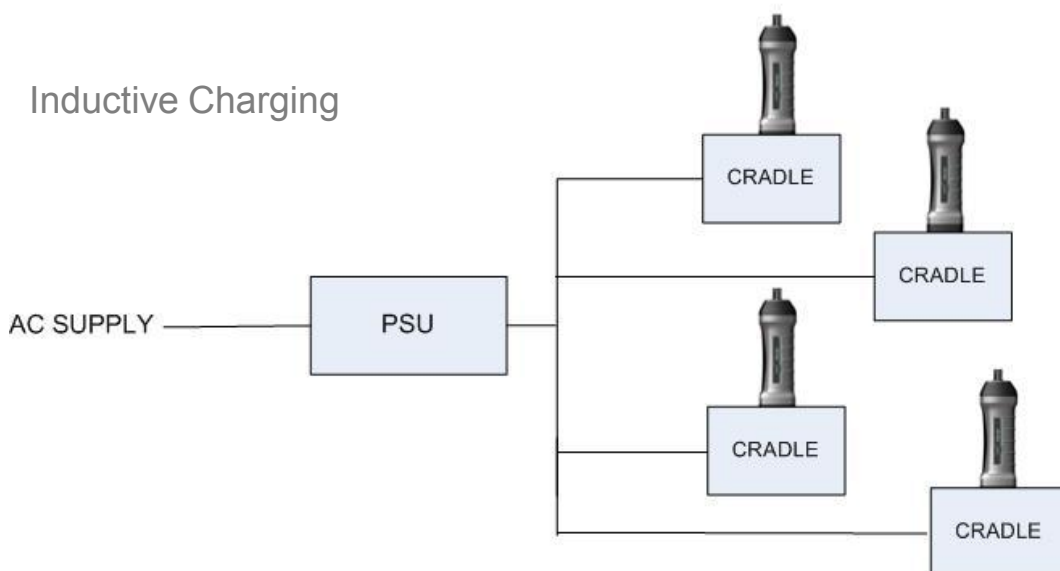
Inductive Charged Battery Pack
This pack is charged whenever the tool is placed in the inductive charger cradle. Charge time from fully discharged is in the region of 14 hours, however as the tool will normally be left in the charger between operations, the pack will remain charged. The cradle must be 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)
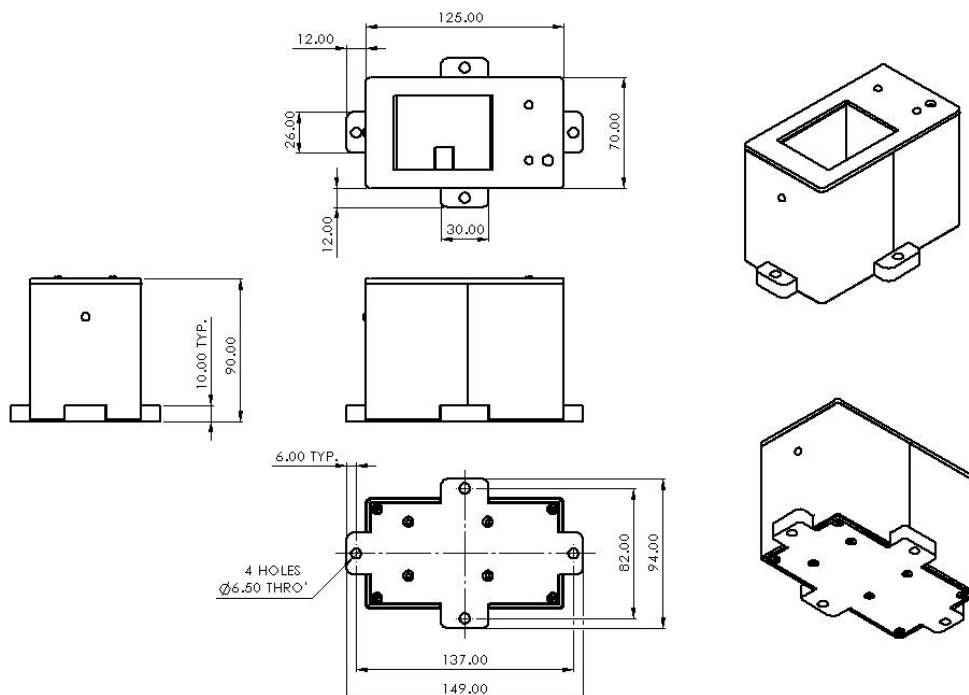
Charging Options Standard Battery Pack

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 Standard Battery Packs, 1 x Charger with Mains Lead
Wireless Hand Tool Kit with LCD Display	973262K-UK/EU/US	
Standard Battery Pack	805794-SX	1 x Standard Battery Pack
Smart Charger with Mains Lead	911474-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	
Inductive Battery Pack	807013-SX	1 x Inductive Battery Pack
Inductive Charger/Cradle	807054-SX	1 x Cradle/Charger
Inductive Charger Power Supply (PSU)	807055-UK/EU/US	1 x PSU for Inductive Charger (Powers up to 4 Cradle/Charger) 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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Precision through Innovation

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