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www.staht.com

Part Number & Description

900-000	G1 Pro Gauge c/w Charge Cable & Case
900-001	G1 Pro Gauge c/w Charge Cable (No Case)
802-020	G1/4 Quick Connect Female Fitting
802-021	G1/4 Quick Connect Male Fitting

Applicable Standards (Applicable to the Gauge)

EN 61000-6-3:2007+A1:2011, Radiated Emissions Test

EN 61000-4-2:2009, Electro-Static Discharge Test

EN 61000-4-3+A1:2010 +A2:2010, Power Frequency Magnetic Field Immunity

EN 61000-4-6:2014, Conducted Disturbances Induced by Electromagnetic Fields

Applicable Directives (Applicable to the Gauge)

2014 / 53 / EU, Radio Equipment Directive (RED)

2011 / 65 / EU, Restriction of Hazardous Substances in Electrical and Electronic Equipment Directive (RoHS)

⚠WARNING







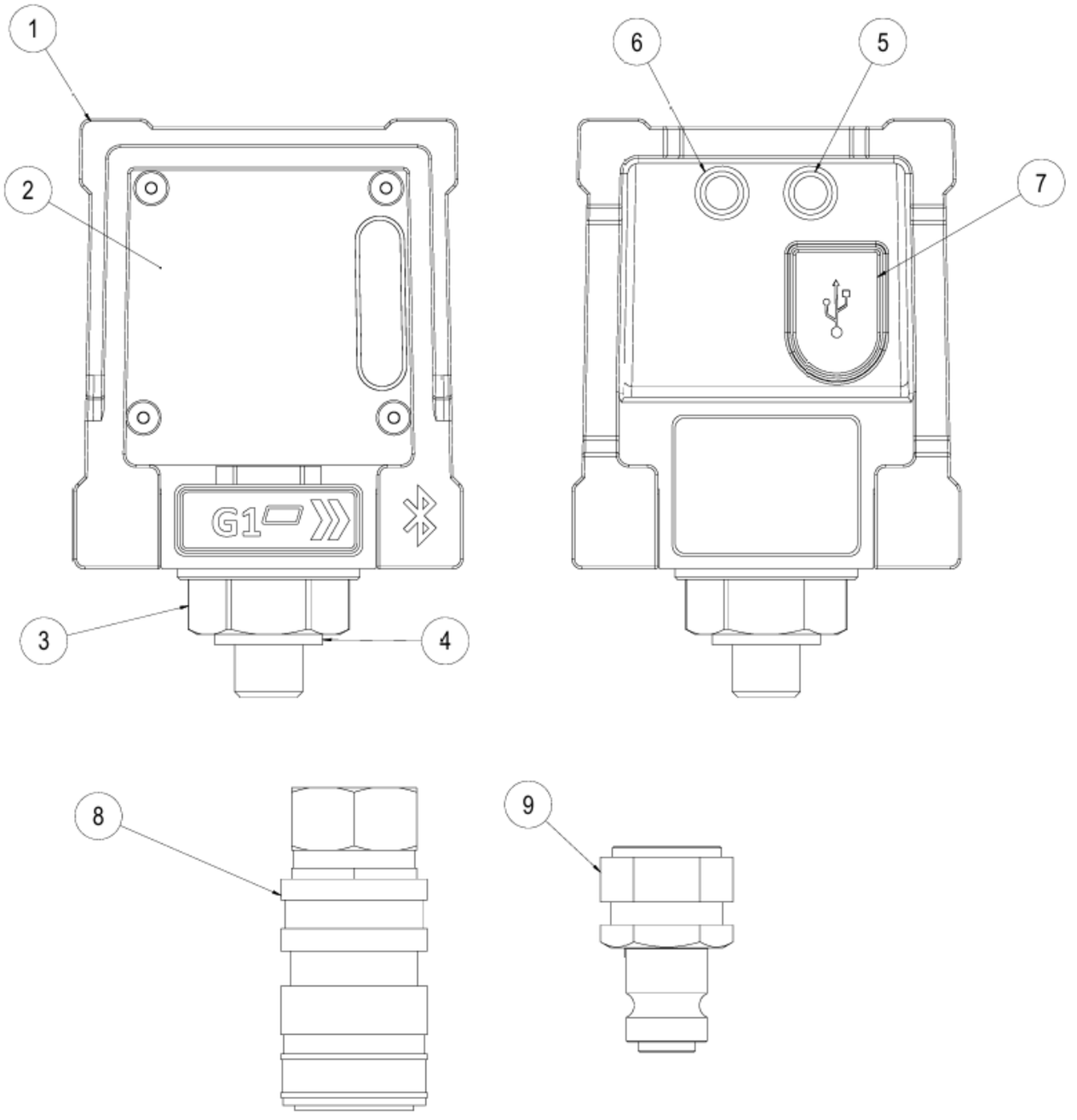


Fig 1

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Intended Use –The G1 Pro Gauge Digital Hydraulic Bluetooth Pressure Gauge can be used to measure hydraulic pressure up to a maximum of 1000 Bar. When connected via Bluetooth to the Staht Connect Digital App, the Gauge can record force readings in kN or lbf. The App allows the user to input hydraulic cylinder (s) areas so it can calculate the force being applied. The gauge is specifically designed for use on typical high pressure hydraulic pump / cylinder (s) applications up to a maximum of 1000 Bar.

Description of User - This equipment is to be used by a Competent Person. A competent person is someone who has sufficient training and experience or knowledge that allow them to perform the task for which the equipment is designed for effectively and in a safe manner.

Retaining Instructions - Read and understand this manual and its safety instructions before using this product. Failure to do so can result in serious injury or death. Follow all the instructions. This will avoid fire, explosions, electric shocks or other hazards that may result in damage to property and/or severe or fatal injuries.

The product shall only be used by persons who have fully read and understand the contents of this user manual. Ensure that each person who uses the product has read these warnings and instructions and follows them. Keep all safety information and instructions for future reference and pass them on to subsequent users of the product. The manufacturer is not liable for cases of material damage or personal injury caused by incorrect handling or non-compliance with the safety instructions. In such cases, the warranty will be voided.

Personal Protective Equipment (PPE) - When using this product, you should wear all required PPE for the area of operation. As a minimum, you should wear safety boots, work gloves and eye protection when using this equipment, irrespective of local conditions. All protective equipment should be fit for purpose. Staht Limited is not liable for the provision, usage or disposal of any PPE.

Storage and Transportation - When not in use, store the equipment in the Carry Case or the Kit Bag. Store in a dry, secure place, in a temperature between 0-25^{o}C. If storing for longer than 90 days without use, power cycle the battery. If transporting by air, transport with a reduced charge (<50%)

Environment – Use in temperatures between -10^{o}C and + 50^{o}C. Do not use underwater, or in heavy rain. :Use of this equipment in areas with environmental hazards may require additional precautions to prevent injury to the user or damage to the equipment. Hazards may include, but are not limited to; heat, chemicals, corrosive environments, high voltage power lines, gases, moving machinery, and sharp edges.

Maintenance - Check equipment before each use. Keep the equipment clean and dry. To clean, use a clean damp cloth and light detergent and dry. Use a clean brush to keep all threads clear from dirt, dust and debris. Lubrication requirements are detailed in the lubrication section below.

WARNING – RECHARGEABLE LITHIUM-ION BATTERY
This product contains a rechargeable lithium-ion battery. Use only the supplied or manufacturer-approved charger. Do not expose the battery to extreme heat, direct sunlight, fire, or liquids. Never puncture, crush, disassemble, or modify the battery. Stop use immediately if swelling, leaking, overheating, or unusual odour occurs.
Charge on a non-flammable surface in a well-ventilated area, away from combustible materials. Store in a cool, dry place at room temperature; maintain approximately 50% charge for long-term storage.
Do not dispose of in household waste or fire. Take to an authorised recycling facility. If battery contents contact skin or eyes, rinse with water and seek medical attention

Servicing – All servicing must be done by Staht Limited, or an approved Staht Service Agent. No modifications are permitted to Staht equipment. Only use genuine Staht parts and accessories.

Calibration - From the date of purchase, the tester is calibrated for one year. The "calibration date" and the "next calibration date“ can be found on the calibration certificate, the display screen on startup and in the app and web dashboard. We recommend calibration should be performed annually to relevant National / International Standards by Staht or an approved third party. **CAUTION**: Failure to calibrate the tester prior to the next calibration date may invalidate any test data.

1 Year Guarantee – Against any material or manufacturing defect. Exclusions: normal wear and tear, oxidation, modifications or alterations, incorrect storage, poor maintenance, negligence, uses for which this product is not designed.

Troubleshooting / Frequently Asked Questions – Please refer to www.staht.com for more information.

2. Nomenclature

Fig 1 – (1) Protective Gauge Bumper, (2) Screen Cover, (3) 1000 Bar Transducer, (4) G1/4 Seal Washer, (5) ON/ OFF Button, Green (6) Toggle Button, Yellow (7) USB Charge Port (8) G ¼ Quick Connect Female Fitting, (9) G ¼ Quick Connect Male Fitting

Note: Items 8 & 9 are NOT included in the kit. Order Separately.

3. Test Preparation

On first use, charge the gauge battery to 100% using USB-C cable provided and a suitable USB plug (not provided) to a mains power source.The charge port can be found on the rear of the gauge (7), see FIG 1.

Before starting the Test Procedure follow the preparation steps below.

WARNING - The Staht G1 Pro Gauge is designed to work at a maximum pressure of 1000 Bar. Do NOT exceed the maximum working pressure.

WARNING – The user MUST be competent both in the use of the test equipment and the Staht Connect App. Failure to follow warnings and input the correct technical data could result in the incorrect force being applied.

4. Test Procedures for the G1 Pro Gauge (Without App Connection)

WARNING: Do not exceed the Maximum Working Pressure of the Gauge. (1000 Bar)

WARNING: Ensure all the hydraulic fittings are tightened sufficiently with the G1/4 seal in position (see fig 1) to seal the gauge to the hydraulic fitting.

i. Fit / tighten the gauge to the connection ensuring a positive fit. **Note:** The thread on the gauge is a G1/4 parallel thread. (Not Taper)
ii. Turn the gauge ON by pressing the Green button (5) with one short press.
iii. Press the Yellow Button (6) with one short press IF you wish to activate the peak hold function.
iv. Increase the pressure and monitor the gauge reading until the test has been completed.
v. To clear the Peak Hold after the test press the Yellow Button.
vi. To turn off the gauge Press and hold the Green Button.

5. Test Procedures for the G1 Pro Gauge (With App Connection)

WARNING: Do not exceed the Maximum Working Pressure of the Gauge. (1000 Bar)

WARNING: Ensure all the hydraulic fittings are tightened sufficiently with the G1/4 seal in position (see fig 1) to seal the gauge to the hydraulic fitting.

i. For basic gauge functions follow the details above in section 4.
ii. The G1 Pro Bluetooth Gauge is Bluetooth enabled to allow you to record all the test data on the Staht Connect App. Follow the account set up sheet instructions included with the product **Note:** If you are already registered on Staht Connect the product will connect in the same way as other Staht Bluetooth testing products, you will not need to register a new account.
iii. To add new cylinder profiles in the app go to settings, cylinder profiles, create. Name the Brand, Part Number, Piston area (cm^2) & Capacity (kN). **WARNING:** Pay particular attention to this data and the units of measure. Always ensure the information entered corresponds with the cylinder manufacturers data. Failure to input the correct information will invalidate the test.
iv. App functionality clearly instructs the user how to use the equipment, so follow the step by step on screen instructions.

If you require further instruction check out our You Tube Channel.
To complete in person training contact Staht directly. (sales@staht.com)

Declaration of Conformity

Staht Limited declares, under its sole-responsibility that the products named on this document have been tested to the Standards stated on this document and complies with the Directives stated.

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Date 20/09/2021

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