sylvac

BOWERS METROLOGY

# DISCOVER THE NEW BLUETOOTH® XTREME

Our digital bore gauges **X_Treme** XTD & XTH are now available in an amazing new version with integrated Bluetooth® transceiver!




## X_Treme XTH/XTD Bluetooth®

- **Built-in Bluetooth® 4.0**
- IP67 protected
- **Bi-directional communication**
- Larger, clearer LCD display
- **New ergonomic design**

SWISS MADE

IP67

Bluetooth® SMART

sylvac

BOWERS METROLOGY

# X_Treme XTH/XTD Bluetooth®










## TECHNICAL SPECIFICATIONS

IP67

| Specifications | 955.6103 | 955.6104 | 955.6105 | 955.6106 | 951.6103 | 951.6104 | 951.6105 | 951.6106 |
|---|---|---|---|---|---|---|---|---|
| Type | SXTH3M | SXTH4M | SXTH5M | SXTH6M | SXTD3 | SXTD4 | SXTD5 | SXTD6 |
| Measuring range | 6–10 mm | 10–20 mm | 20–50mm | 50–100mm | 6–10 mm | 10–20 mm | 20–50mm | 50–100mm |
| Number of heads | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 |
| Number of rings | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 |
| Measuring force | 7N | 15N | 21N | 28N | 7N | 15N | 21N | 28N |
| Connection | Bluetooth® Smart 4.0* / Proximity-USB | | | | | | | |
| Protection rating | IP67 | | | | | | | |

Available on the App Store

Google play

*** Up to 8 instruments connected per dongle #981.7100**
**More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT**

SWISS MADE

Bluetooth® SMART

**SYLVAC SA** Ch. du Closalet 16 / CH-1023-Crissier Tél: +41 (0) 21 637 67 57 Web: www.sylvac.ch

**Digital Bluetooth®**
**Bore Gauge**
**Operating Instructions**
**IP67 Electronics**

**Digital Bluetooth®**
**Alésomètre**
**Notice d'utilisation**
**Electronique IP67**

**Digital Bluetooth®**
**Bohrungslehre**
**Bedienungsanleitung**
**IP67 Elektronik**

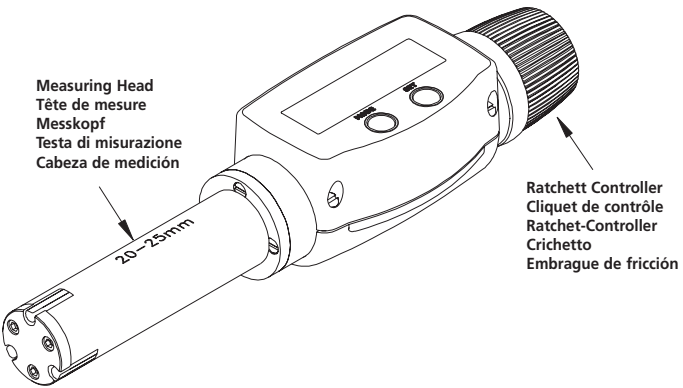
**Digital Bluetooth®**
**Alesametro**
**Istruzioni d'uso per**
**IP67 L'elettronica**

**Digital Bluetooth®**
**Micrómetro de interiores**
**Instrucciones de funcionamiento**
**IP67 Electrónica**




sylvac

## MEASURING OPERATION MODE OPERATOIRE MESSUNG OPERAZIONE DI MISURA OPERACIÓN DE MEDICIÓN




The gauge should be placed into the appropriate measuring ring to set or check the calibration. Place the gauge into the bore to be measured, ensuring that the anvils sit squarely on the surface of the bore. In each case twist the ratchet controller three times to achieve a set pressure on the anvils.

When sets with alternative measuring heads are used, make sure that the head is screwed firmly onto the electronic reading head.
The surfaces between the mating parts should be clean and free from grit or swarf before assembly.

Etalonner le micromètre en utilisant la bague appropriée. Placer le micromètre dans l'alésage tout en s'assurant que les touches de la tête de mesure sont bien en contact avec la surface de l'alésage. Tourner le cliquet sur 3 tours complets afin d'appliquer la pression optimale au niveau des touches.

En cas d'utilisation avec des têtes de mesure interchangeables, s'assurer que la tête de mesure est fermement vissée sur l'unité de mesure. Les surfaces en contact doivent être propres (touches exemptes de graisses, poussières..etc.).

Das Gerät sollte in einem passenden Einstellring kalibriert bzw. die Kalibrierung überprüft werden. Beim Einführen in die Bohrung darauf achten, daß die Messeinsätze rechtwinklig in der Bohrungsfläche stehen. Die Ratsche sollte mindestens dreimal angedreht werden, damit der richtige Messdruck an den Einsätzen gewährleistet ist.

Beim Austausch von Messköpfen, immer darauf achten, daß der Kopf fest auf den Halter aufgeschraubt ist. Dabei müssen die Anlageflächen sauber und frei von Fett und Schmutz sein.

## BLUETOOTH® CONFIGURATION

**CONNECTION PROCEDURE**

Symbol ᛒ off.....disconnected mode

Symbol ᛒ blinking.....advertising mode

Symbol ᛒ on.....connected mode

**The following options can be selected to control the Bluetooth® module.**

| | |
|---|---|
| On | Enable Bluetooth® module (start advertising mode). |
| OFF | Disable Bluetooth® module (terminate active connection). |
| rESEt | Clear pairing information. |
| MAC | Display the MAC (Media Access Control) address. |

**Three Bluetooth® profiles are available.**

| | |
|---|---|
| SIMPLE | Profile without pairing (default). |
| PAIr | Paired and secured profile. |
| HId | Virtual keyboard mode (compatible with recent equipment without driver installation). |

**Note:**

- Bluetooth® pairing information is cleared when the profile is changed.

**Connection:**

1. Activate Bluetooth® compatible software and hardware (Master : PC, Display Unit).
2. Start the instrument. By default the Bluetooth® module is active and the instrument is available for connection (advertising mode).
3. If no connection is established during the advertisement period reactivate the Bluetooth® module using the bt / On menu.
4. Instrument is ready to communicate (connected mode).

**Only with paired profile:**

Pairing with master is automatically done at first connection.
To connect the instrument to a new master (new pairing), pairing information on the instrument must be cleared using the bt / rESEt menu.

## BLUETOOTH® SPECIFICATIONS

| | |
|---|---|
| Frequency Band | 2.4 GHz (2.402 - 2.480 GHz) |
| Modulation | GFSK (Gaussian Frequency Shift Keying) |
| Max. output power | Class 3: 1mW (0dBm) |
| Range | Open space: up to 15 m<br>Industrial environment: 1-5 m |
| Battery life | Continuous : up to 2 months - Always connected with 4 values / sec.<br>Saver : up to 5 months - The instrument sends value only when the position has changed.<br>Blind/Push : up to 7 months - Value is sent from the instrument (button) or requested from the computer. |

Other specifications on the manufacturer's website.

## IP67 PROTECTION PROTECTION IP67 IP67 - SCHUTZ PROTEZIONE IP67 PROTECCION IP67

Please note the IP67 Protection rating for the instrument contained in these instructions applies to the electronics only.

La protection IP67 vaut uniquement pour l'afficheur digital.

Die IP67 Schutzkategorie gilt nur für die Elektronik.

Il grado di protezione IP67 si intende esclusivamente per l'elettronica.

La protección IP67 se aplica sólo a la unidad electrónica.

## WARRANTY GARANTIE GARANTIE GARANZIA GARANTIA

Except for battery exchange only the manufacturer has the ability to dismount the electronics. Any tampering will invalidate warranty.

A l'exception du changement de pile, l'unité électronique ne peut être démontée que par le fabricant, sinon la garantie sera rendu nulle et sans effet.

Mit Ausnahme der Batteriewechsel darf die Elektronik nur vom Hersteller demontiert werden, sonst entfällt jeder Garantieanspruch.

Esclusa la sostituzione della batteria, solo il costruttorè e autorizzato ad accedere all interno dell'elettronica. Qualsiasi tentatativo o manomissione farà decadere automaticamente ogni garanzia.

La garantía cubre defectos de fabricación. Las baterías no están incluidas en la misma.

Cualquier intento de manipular el equipo invalidará la garantía.

## BLUETOOTH®
## BRAZIL CERTIFICATION

**Description of Bluetooth® Module:**

This module is based on Nordic Semiconductor nRF8001 µBlue Bluetooth® Low Energy Platform. The nRF8001 is a single chip transceiver with an embedded baseband protocol engine, suitable for ultra-low power wireless applications conforming to the Bluetooth® Low Energy Specification contained within v4.0 of the overall Bluetooth specification. The nRF8001, used in the current revision of ISP091201, is a production product using a RoM for the baseband protocol engine.

Este equipamento opera em caráter secondário, isto é, não tem direito à proteção contra interferência prejudicial, mesmo de estações do mesmo tipo e não pode causar interferência a sistemas operando em caráter primário.




## BLUETOOTH®
## MEXICO CERTIFICATION

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

Contiene módulo inalámbrico
Marca: Sylvac
Modelo: ISP091201D
IFT: RCPSYIS14-0655

*BOWERS*

M/N: XTDU( )-BT

This device contains
FCC ID: 2AAQS-ISP091201
IC: 11306A-ISP091201

**NOTICE:**
This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions;

(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

**NOTICE:**
Changes or modifications made to this equipment not expressly approved by Bowers may void the FCC authorization to operate this equipment.

**NOTE:**
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

**RADIOFREQUENCY RADIATION EXPOSURE INFORMATION:**
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**SYLVAC SA**
Avenue des Sciences 19
CH-1400 Yverdon-Les-Bains

Tel +41 21 637 67 57
Fax +41 21 637 67 40
Email admin@sylvac.ch
www.sylvac.ch

# EU DECLARATION OF CONFORMITY (DoC)

We, Sylvac SA, hereby declare under our sole responsibility that the product

| | |
|---|---|
| Name | Xtrem 3 XTDU/XTPG / Xtrem 3 XTDU/XTPG BT |
| Description | Bore gauges Electronics X_Trem XT3DU / XT3PG |
| Part Numbers | **XT3DU:** 951.5001-…- 951.5007 |
| | **XT3PG:** 955.5001-…- 951.5004 |

has been submitted to a conformity assessment and fulfils the essential requirements of the following European directives

| | |
|---|---|
| 2001/95/EC | General product safety |
| 2014/30/EU | EMC |
| 2011/65/EU & 2015/863/EU | RoHS |
| 1999/5/EC(1) | R&TTE (Radio and telecommunications terminal equipment) |

and complies with the following harmonized standards or other normative documents

| | |
|---|---|
| EN 61326-1:2013 | Electrical equipment for measurement, control and laboratory use – EMC requirements |
| EN 50581:2012 | Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances |
| EN 300 328 V1.7.1(1) | Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems |

(1)BT Smart model only

Person authorized to compile the technical file and issue the declaration of conformity: Eric Schnyder

| | |
|---|---|
| Place and date of issue | Yverdon-Les-Bains, September 12, 2019 |
| Name (position) | Eric Schnyder (CEO) |
| Signature |  |