



# GIROUD

> mécanique de précision <

## INSTRUCTIONS

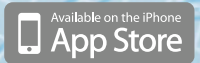
### CROSS CARRIAGE COMPATIBLE SCHAUBLIN 102



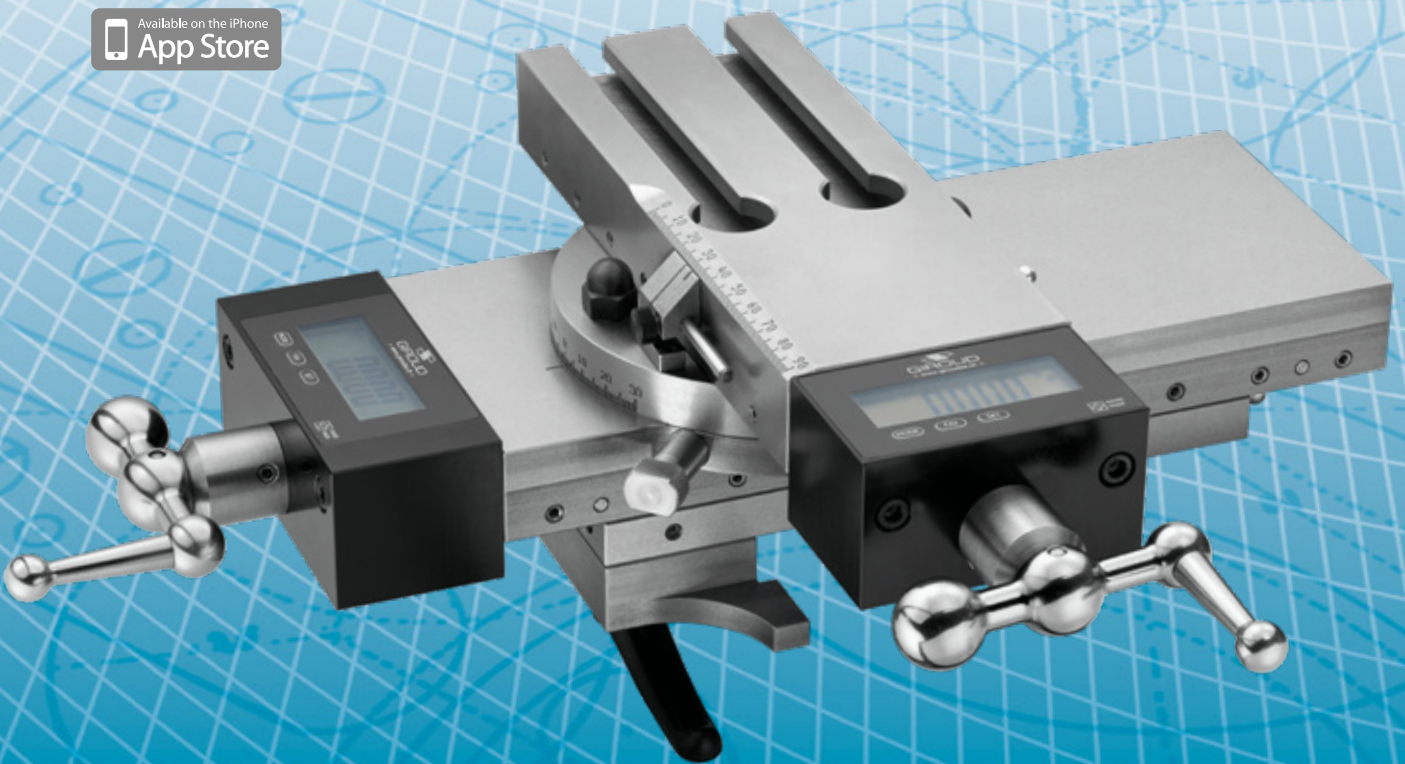
Bluetooth®

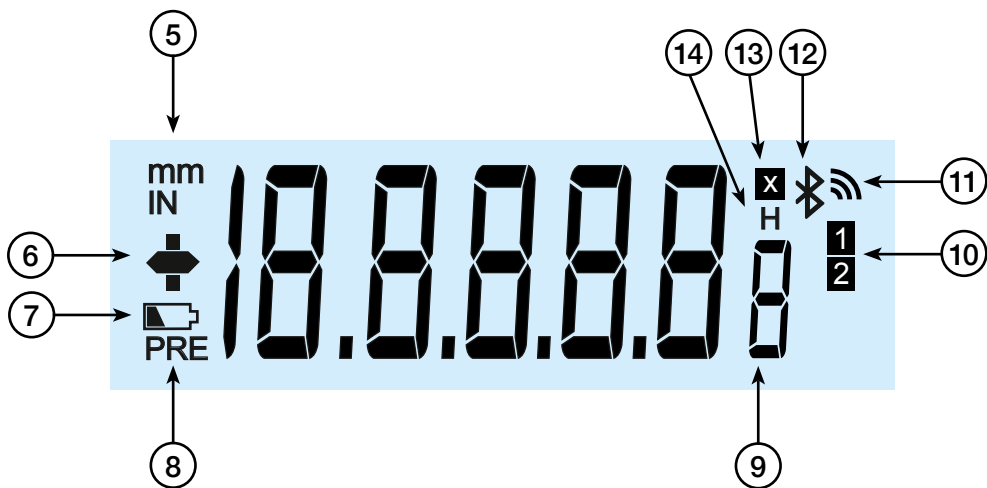
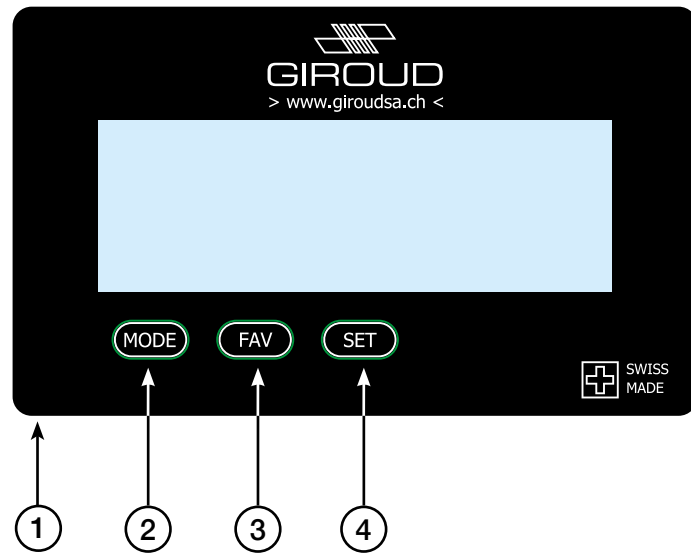


Google play



Available on the iPhone  
App Store





## Description

- |                                  |                             |
|----------------------------------|-----------------------------|
| 1. Slot for battery              | 8. Preset mode              |
| 2. MODE button                   | 9. 7-digit display          |
| 3. «Favourite» button            | 10. Active reference        |
| 4. SET button                    | 11. Send data               |
| 5. Measurement units (mm / INCH) | 12. Bluetooth® active       |
| 6. + / - indicator               | 13. Mode radius or diameter |
| 7. Low battery                   | 14. Hold measured value     |

# 1

## OPERATING FEATURES OF THE BLUETOOTH® CROSS CARRIAGE

### MODE

The display has two operating modes: basic functions (direct access) and advanced functions.

### FAV

The «Favourite» key gives direct access to the function used most often.

### SET

Sets a Preset value, verifies a selection, and controls switching off the instrument.

# 2


## START

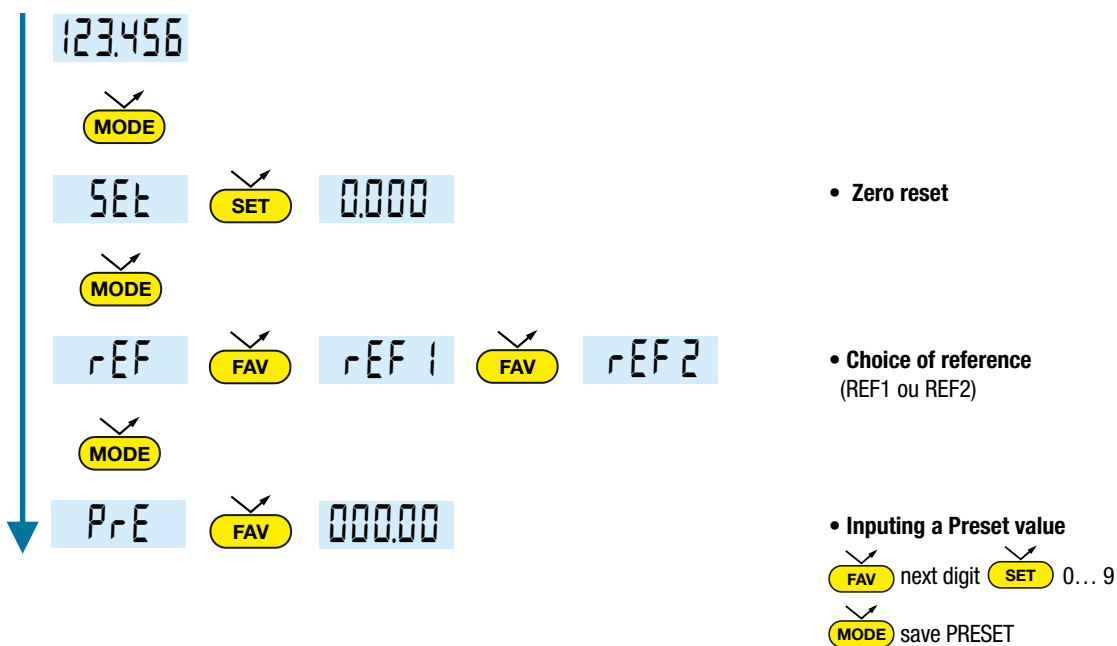
Press a button.

For a Bluetooth® connection (see chap. 5).

# 3

## BASIC FUNCTIONS

Each short press on  gives direct access to the basic functions :



Note: It is possible to assign a different preset value to each of the 2 References.



# 4

## ADVANCED FUNCTIONS

Prolonged pressure (> 2s) on **MODE** gives access to the advanced functions.

Then, each short press on **MODE** accesses the required function:


<p>Unit <b>FAV</b> mm <b>FAV</b> Inch <b>SET</b></p> <p><b>MODE</b></p> <p>rES <b>FAV</b> 0.001 <b>FAV</b> 0.01 <b>SET</b></p> <p><b>MODE</b></p> <p>dir <b>FAV</b> +0.001 <b>FAV</b> -0.001 <b>SET</b></p> <p><b>MODE</b></p> <p>OFF <b>FAV</b> Auto <b>FAV</b> Off <b>SET</b></p> <p><b>MODE</b></p> <p>bt.CFG <b>FAV</b> +SIMPLE <b>FAV</b> PAIR <b>FAV</b> Hid <b>SET</b></p> <p><b>MODE</b></p> <p>Loc <b>FAV</b> OFF <b>FAV</b> On <b>SET</b></p>	<ul style="list-style-type: none"> <li>• <b>Unit selection</b> (mm or INCH)</li>   <li>• <b>Choice of resolution</b> 0.01 / 0.001</li>   <li>• <b>Choice of measurement direction</b> (positive or negative direction)</li>   <li>• <b>Automatic switch-off mode</b> Off = disabled, Auto = active (after 10 min.)</li>   <li>• <b>Bluetooth® profile selection</b> (see chap. 5 for details) The + sign indicates the currently active profile.</li>   <li>• <b>Keypad lock</b> Only the favourite key <b>FAV</b> remains active. (to unlock the keypad, press <b>SET</b> for 5 sec).</li> </ul>
---	---


... only for X axis


<p><b>MODE</b></p> <p>r-d <b>FAV</b> rAd <b>FAV</b> d.R <b>SET</b></p>	<ul style="list-style-type: none"> <li>• <b>Choice radius or diameter</b></li> </ul>
--	--

In diameter mode, the **X** sign appears on the display

The connection procedure has been designed to be simple and is signalled by the following three states:

Symbol  off = disconnected mode

Symbol  = advertising mode

Symbol  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.

**Hide** 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 > FAV > 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 > FAV > RESET** menu.

## 5.1 Bluetooth® specifications

Frequency Band	2.4 GHz (2.402 - 2.480 GHz)
Modulation	GFSK (Gaussian Frequency Shift Keying)
Max Output Power	Class 3: 1 mW (0dBm)
Range	Open space: up to 15m Industrial environment: 1-5m

The «favourite» key gives direct access to a predefined function, and can be configured according to the needs of the user.

In order to assign a function to the «favourite» key, give a prolonged press (> 2 s) on  and then select the required function :

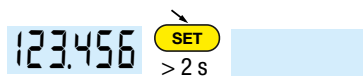
		Data transmission (default)
		Hold display
		Zero reset
		REF 1 - REF 2
		Recall Preset
		Bluetooth® ON-OFF
		mm - INCH
		0.01 / 0.001
		Measurement direction positive - negative
		Mode radius or diameter

Validation of selection: by a prolonged press on  or a short press on  or 

## 7 SWITCHING OFF

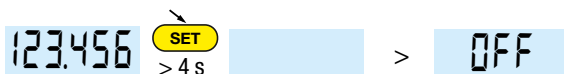
The display goes automatically into stand-by if not used for 10 minutes, unless automatic switch-off mode has been turned off (see Chap. 4, advanced functions).

Stand-by mode can be forced by a prolonged press (> 2 sec) on SET :



In stand-by mode, the value of the origin is retained by the sensor, and the instrument automatically restarts with any movement of the measurement probe, RS command, Bluetooth® request or press on button.

The display can be switched off completely for a long period of non-use, but this will necessitate a zero reset on restart (the origin will be lost). Prolonged press (> 4 sec) on SET:



## 8 RE-INITIALISING THE DISPLAY

The initial display settings can be restored at any time by a prolonged press (> 4 sec) simultaneously on MODE and SET until the message RESET is displayed:

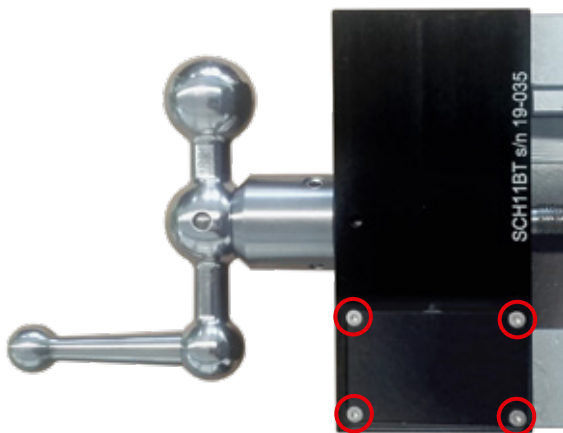


## 9 SPÉCIFICATIONS

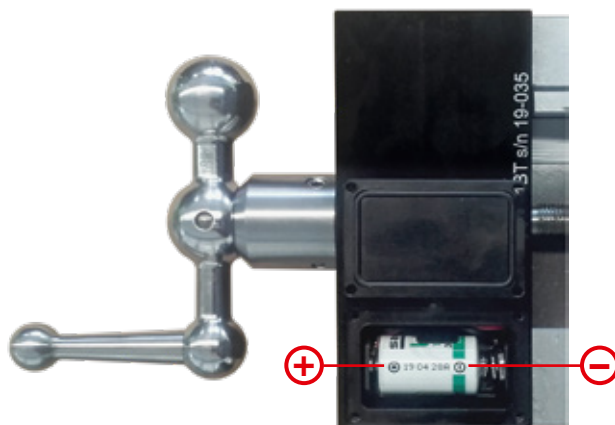
### TECHNICAL DATA

Strokes	Z: 90 mm, X: 100 mm
Scale resolution	< 5 µm
Readout resolution	1 - 10 µm
Battery type	Lithium LS14250 (1200 mAh)
Battery life time	3'000 hours
Protection rating	IP64
Operating temperature	+5° > +40° C

1) Unscrew the 4 screws



2) Remove the battery and put in a new one (LS14250 3.7V)  
PAY ATTENTION TO THE POLARITY +/-



3) Clean the surfaces and the joint

4) Close the lid using the 4 screws.