sylvac

Experts in connected metrology !



DIGITAL INDICATOR Ø45MM

MINI

IOT READY

SWISS MADE

SIS Smart Inductive System

Discover our brand new S_Dial Mini : the smallest digital indicator in the world with integrated Bluetooth® technology and IP67 protection.

Bluetooth®

Ø45

Small diameter

Small dial diameter of 45mm with bigger display for easy reading.

Many functions

Analogical scale, Preset, min/max/ delta and more on Smart models.

Ø8-h6

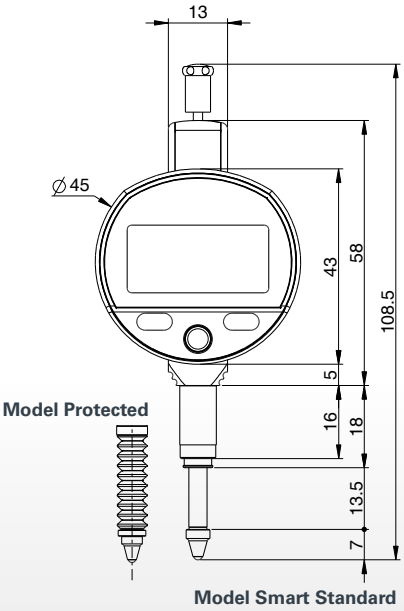
Standard clamping stem Ø8-h6 and interchangeable contact point.

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FEATURES

- Compact, small diameter (Ø45 mm)
- Improved mechanical design
- Water and coolant resistant, protection rating IP54 or IP67 according to IEC 60529 (depends on model)
- Data output RS 232 combined with external power supply and Bluetooth® (depends on model)
- Interchangeable contact point M2.5
- Clamping stem Ø 8-h6 of hardened and ground stainless steel. Dovetail back
- Automatic power shut down

Bluetooth® POWER



DATA

Models Smart		805.6121	805.6123	805.6125	805.6523	805.6521	805.6525
Measuring range	mm	12.5	12.5	12.5	12.5	12.5	12.5
Analogic scale		✔	✔	✔	✔	✔	✔
Lifting cap		✔	---	---	---	✔	---
Resolution	mm	0.01	0.01	0.01	0.001	0.001	0.001
Output data		Bluetooth® wireless Technology/USB/RS232					
Execution		Standard	Standard	Protected	Standard	Standard	Protected
Protection		IP67	IP67	IP67	IP67	IP67	IP67

Models Basic		805.4121	805.4125	805.4521	805.4525
Measuring range	mm	12.5	12.5	12.5	12.5
Analogic scale		---	---	---	---
Lifting cap		✔	---	✔	---
Resolution	mm	0.01	0.01	0.001	0.001
Output data		USB/RS232			
Execution		Standard	Protected	Standard	Protected
Protection		IP54	IP67	IP54	IP67

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INSTRUCTIONS

MODE D'EMPLOI

BEDIENUNGSANLEITUNG

MANUALE D'USO

INSTRUCCIONES DE USO

MINI DIAL GAUGE **E**

MINI COMPARATEUR **F**

MINI MESSUHR **D**

MINI COMPARATORE **I**

MINI COMPARADOR **S**

E

1 . Operating features of the instrument



PRESET - Main function: Preset recall (default value 0.000)

DATA - Data transmission

Main function of the preset recall can be attributed to the sending of data by using the FUNC menu (see chap. 3).

- Preset value

Preset value other than 0.000 can be set using RS232.

- Personalising the functions

It is possible to activate or de-activate certain functions of the instrument via RS232 (see chap. 6).

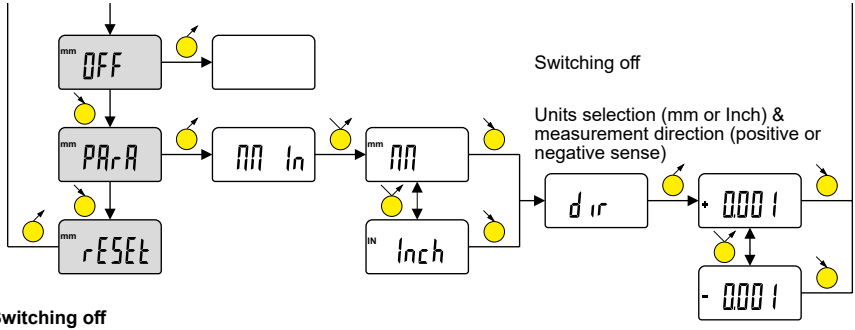
- Data transmission parameters

4800 Baud connection, 7 bits, even parity, 2 stop bits.

2. Start



Press button to start.



4. Switching off

The dial gauge goes automatically into stand-by if not used for 10 minutes. the value of the origin is retained by the sensor (SIS mode), and the instrument automatically restarts with any movement of the measurement probe, button action or RS232 command.

The instrument 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 (>6 s) on button until OFF is displayed.

5. Re-initialising the instrument

All settings (unit and measuring direction) will remain after a battery change. The initial instrument settings can be restored at any time by a prolonged press (>12 s) on button until the message rESEt is displayed.

6. Personalising the instrument

Access to the functions of your instrument can be personalised, for more information see manufacturer's website (requires you to connect your instrument via a Power RS / USB cable).

It is possible to activate or deactivate the required functions

7. Connecting the instrument

The instrument can be connected to a peripheral via a power (RS or USB) cable. See page 3 for connecting the Power cable.

Measured values can be transmitted and the instrument driven using predefined retro-commands (see chap. 8 for a list of the main commands).

E

8. List of the main commands

Selection and configuration

CHA+ / CHA-	Change measurement direction
ECHO0, ECHO1	Echo commands
FCTxxx	Assign «favorite» function
MM / IN	Change measurement unit
KEY0 / KEY1	Lock / unlock keypad
PRE [+/-]xxx.xxx	Modify preset value
LCAL dd.mm.yy	Modify last calibration date
NCAL dd.mm.yy	Modify next calibration date
SET	Zero reset
UNI1 / UNI0	Activate / de-activate change of units
RES2 / RES3	Change of résolution
OFF	Switch-off (wake up using a button or RS)
RST	Re-initialisation of the instrument
SBY	Put instrument in Stand by (SIS)

Interrogation

?	Current value?
CHA?	Measurement direction?
BAT?	Battery status? (BAT1 = OK, BAT0 = low battery)
KEY?	Keypad locked?
FCT?	Main function active?
UNI?	Measurement unit active?
PRE?	Preset value?
LCAL?	Date of last calibration?
NCAL?	Date of next calibration?
SET?	Main instrument parameters?
ID?	Instrument identification code?
RES?	Resolution value?
VER?	Version No. and date of firmware?

CERTIFICATE OF CONFORMITY
We certify that this instrument has been manufactured in accordance with our Quality Standard and tested with reference to masters of certified traceability by the National Office of Metrology.

CERTIFICAT DE CONFORMITE
Nous certifions que cet instrument a été fabriqué et contrôlé selon nos normes de qualité et en référence avec des étalons dont la traçabilité est reconnue par l'office national de métrologie.

QUALITÄTSZEUGNIS
Wir bestätigen, dass dieses Gerät gemäss unseren internen Qualitätsnormen hergestellt wurde und mittels Normalen mit anerkannter Rückverfolgbarkeit, kalibriert durch das Nationalamt für Metrologie, geprüft worden ist.

CERTIFICATO DI CONFORMITÀ
Con il presente si certifica che questo strumento è stato prodotto secondo il nostro standard sulla qualità e controllato rispetto a campioni di riferibilità riconosciuta dall'ufficio nazionale di metrologia

CERTIFICADO DE CONFORMIDAD
Certificamos que este instrumento ha sido fabricado conforme a nuestras normas de calidad y ha sido controlado en relación con patrónes de trazabilidad reconocida por la oficina nacional de metrología.

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EU DECLARATION OF CONFORMITY (DoC)

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

Name	S_Dial Mini Basic
Description	Mini digital indicator
Part Numbers	805-4121, 805-4125, 805-4521, 805-4525

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

2001/95/EU	General product safety
2014/30/EU	EMC
2011/65/EU & 2015/863/EU	RoHS

and complies with the following harmonized standards or other normative documents

EN 61326-1:2021	Electrical equipment for measurement, control and laboratory use – EMC requirements
EN IEC 63000:2018	Technical documentation for the assessment of electrical and electronic, products with respect to the restriction of hazardous substances

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

Place and date of issue	Yverdon-Les-Bains, September 28, 2023
Name (position)	Eric Schnyder (CEO)
Signature	