

HAND TOOLS

In 1981, Sylvac launches the first caliper with digital read-out on the market. Quickly, other models followed and the market of these handtools took an incredible rise.

Sylvac did not remain behind and proposes today a range of calipers with digital read-out of a measurement capacity going from 150 to 3000 mm. Other handtools complete this range.

Sylvac inductive measuring system (patented)

Data output

Power supply: Lithium battery 3V, Type CR 2032

Operational temperature: +5 to +40°C

mm/inch selection

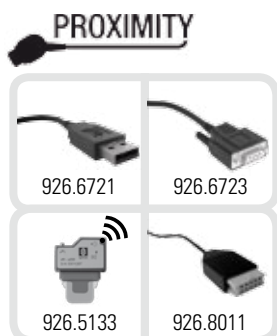
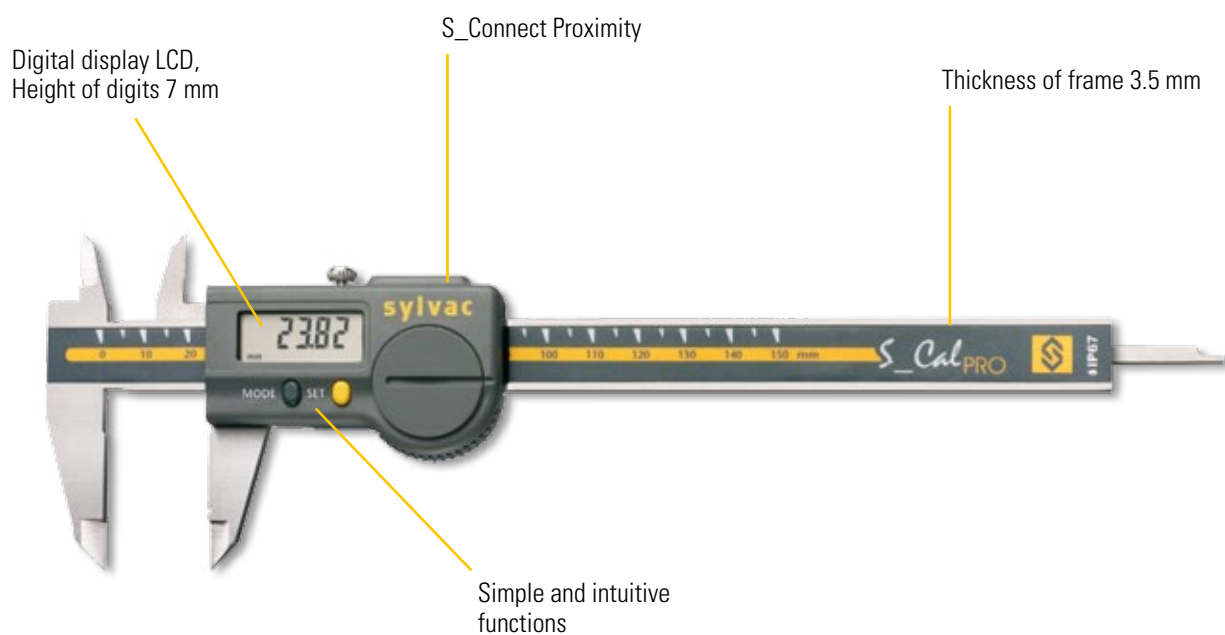


Professional Caliper

S_Cal PRO

DESCRIPTION

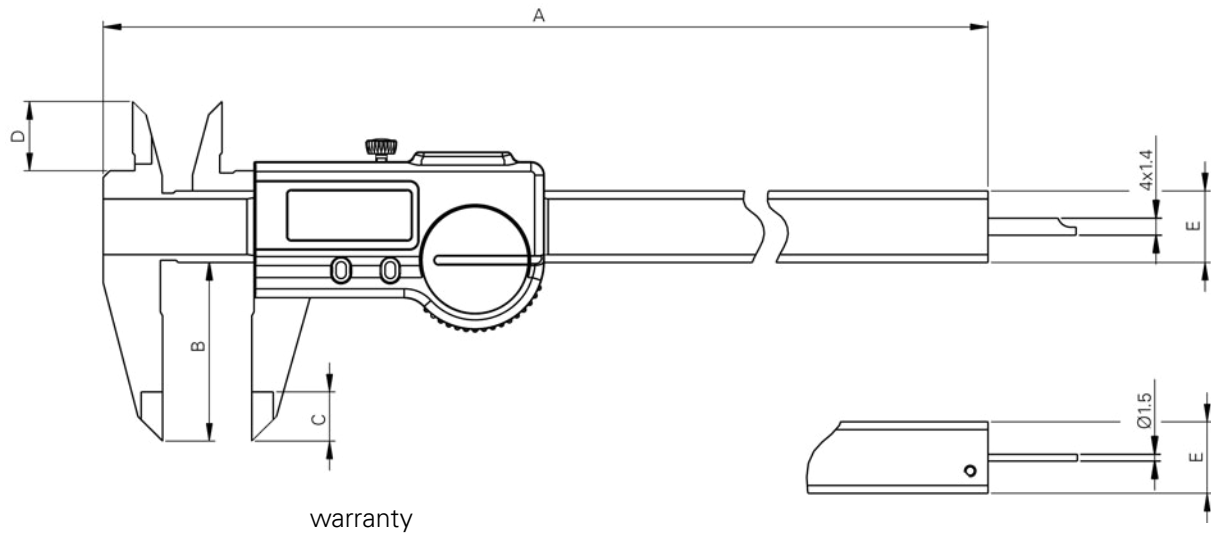
- Water protected for heavy-duty work with coolants and lubricants, protection rating IP67 according to IEC 60529, **even connected**
- Automatic wake-up by moving the electronic on his frame. (system S.I.S)
- Sleeping mode after 20 min. of no use. (system S.I.S)
- Position memorized in sleeping mode (system S.I.S), **absolute system**
- Maximum speed of displacement : 2.5 m/sec
- Mechanical frame in stainless steel, hardened and ground
- Thumb wheel on request (see accessories)
- Great comfort of use thanks to its ergonomic frame



Professionnal Caliper

S_Cal PRO

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

		910.1502	910.1507	910.1522	910.1532
Measuring range	mm	150	150	200	300
Max. Error G	µm	20 ¹⁾	20 ¹⁾	30	30
A	mm	234.5	234.5	290.5	388
B	mm	40	40	50	64
C	mm	11	11	14	14
D	mm	16	16	19	19
E	mm	16 x 3.5	16 x 3.5	16 x 3.5	16 x 4
Depth rod	mm	4 x 1.4	Ø 1.5	4 x 1.4	---
Protection rating according to IEC 60529		IP67 with or without connector			
S_Connect : Proximity		USB / RS232 / Digimatic / Wireless ²⁾			
Zero setting		●			
Smart Inductive Sensor		●			

¹⁾ > 100 mm : 30 µm / DIN 862

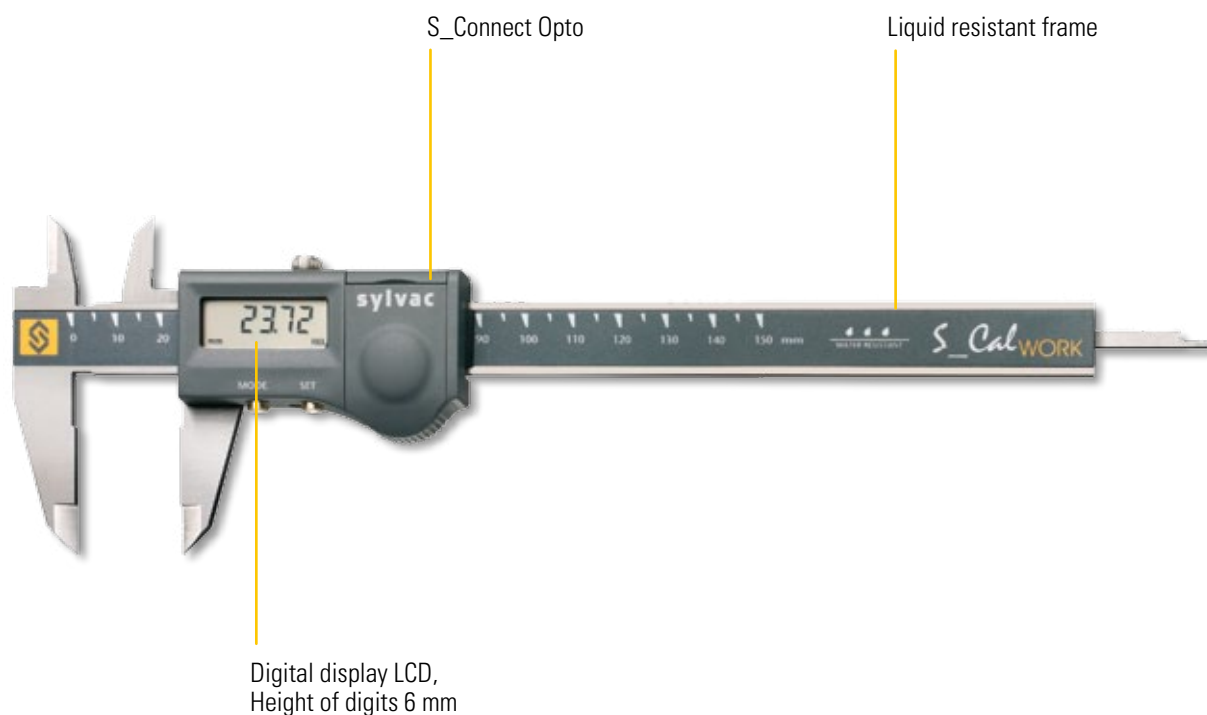
²⁾ see cables chapter

Workshop caliper

S_Cal WORK

DESCRIPTION

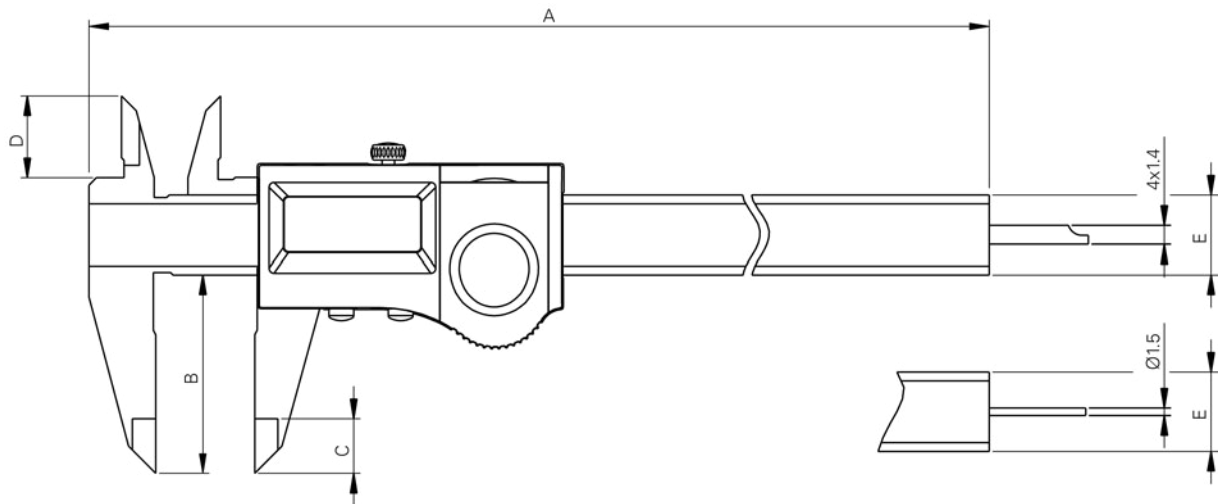
- Maximum speed of displacement : 2 m/sec
- Mechanical frame in stainless steel, hardened and ground
- Automatic switch off mode
- Thumb wheel on request (see accessories)



Workshop caliper

S_Cal WORK

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

		910.0502	910.0507	910.0522	910.0532
Measuring range	mm	150	150	200	300
Max. Error G	µm	20 ¹⁾	20 ¹⁾	30	30
A	mm	233	233	290	385
B	mm	40	40	50	65
C	mm	10	10	14	14
D	mm	16	16	20	20
E	mm	16 x 3	16 x 3	16 x 3	16 x 4
Depth rod	mm	4 x 1.4	Ø 1.5	4 x 1.4	---
Protection rating according to IEC 60529		IP54 with or without connector			
S_Connect : Opto		USB / RS232 / Digimatic / Wireless ²⁾			
Zero setting		●			
REL and ABS functions		●			

¹⁾ > 100 mm : 30 µm / DIN 862

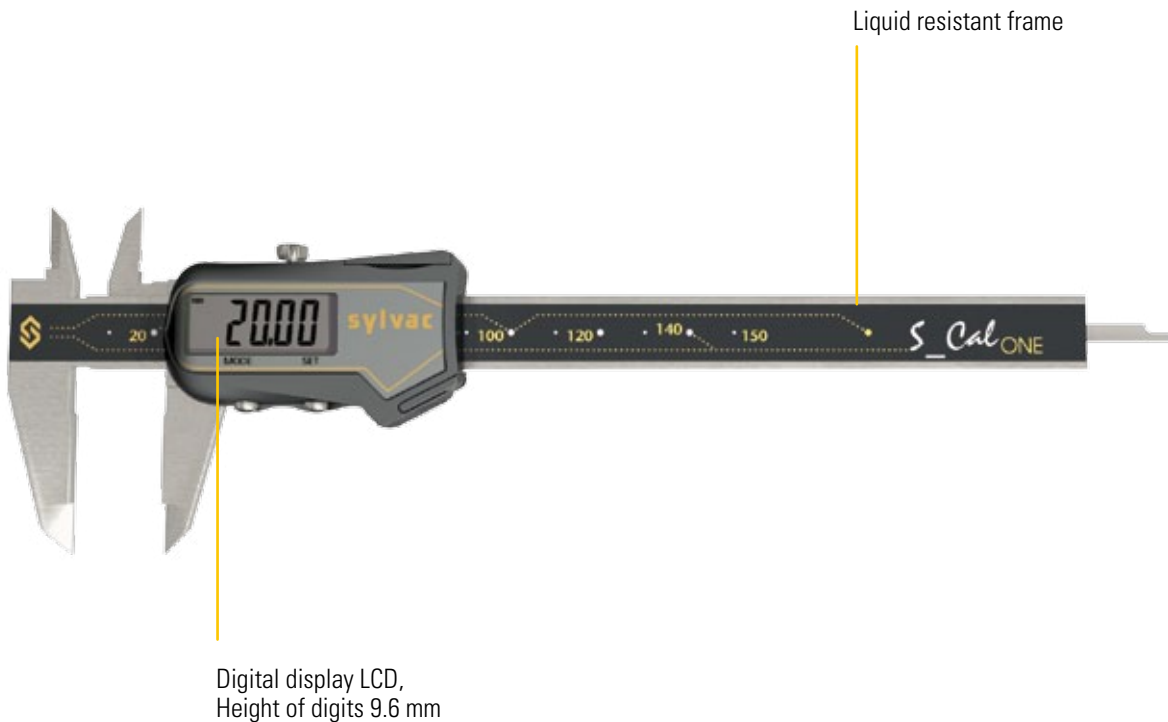
²⁾ see cables chapter

Workshop caliper

S_Cal ONE

DESCRIPTION

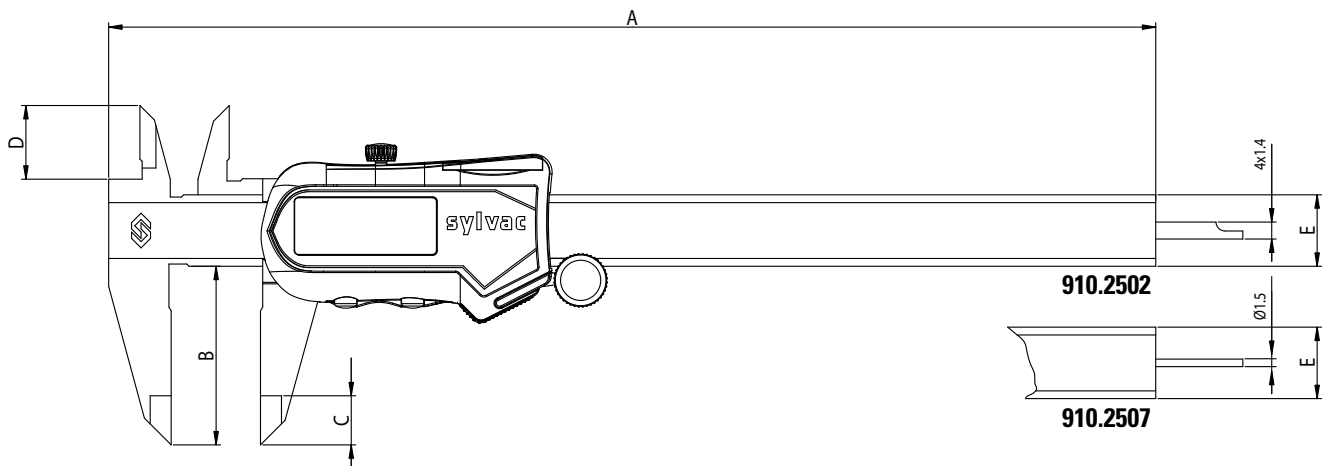
- Maximum speed of displacement : 2 m/sec
- Mechanical frame in stainless steel, hardened and ground
- Thumb wheel on request (see accessories)
- Modern design
- Large digits



Workshop caliper

S_Cal ONE

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

		910.2502	910.2507
Measuring range	mm	150	150
Max. Error G	µm	20 ¹⁾	20 ¹⁾
A	mm	233	233
B	mm	40	40
C	mm	10	10
D	mm	16	16
E	mm	16 x 3	16 x 3
Depth rod	mm	4 x 1.4	Ø1.5
Thumb wheel device		optional	
Zero setting		●	

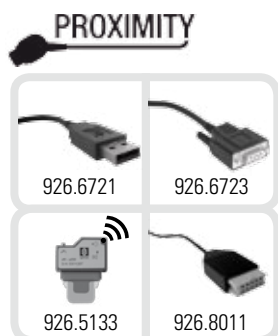
¹⁾ > 100 mm : 30 µm / DIN 862

The micron caliper

S_Cal Micron

DESCRIPTION

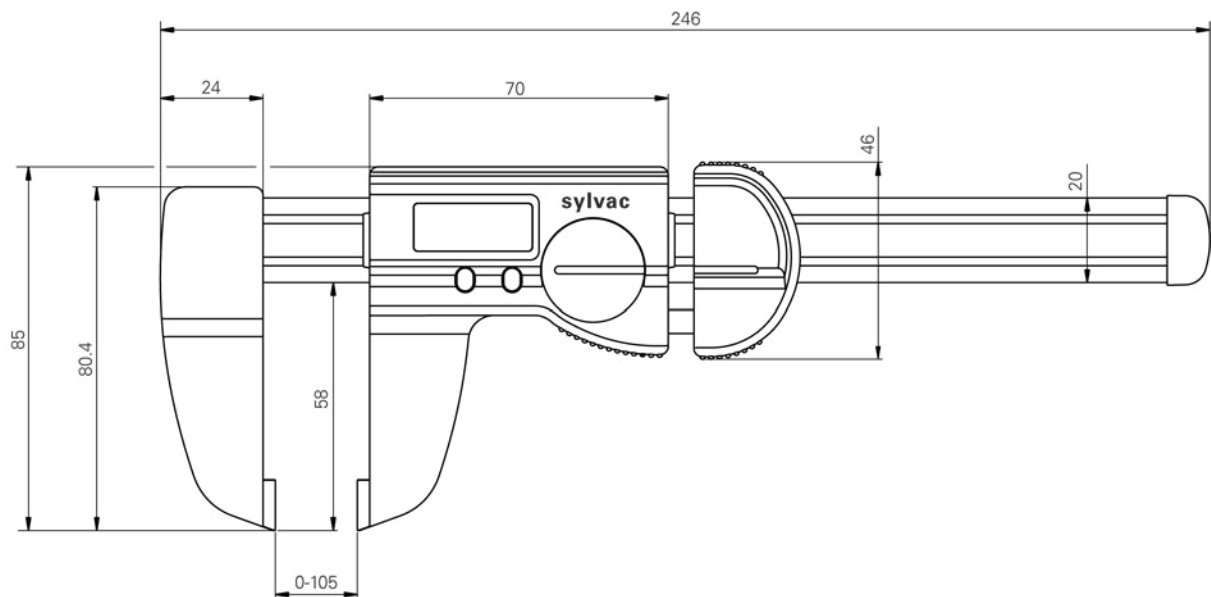
- PRESET function
- Digital display LCD, height of digits 6.7 mm
- Constant measuring force
- Supplied with stand and photo-cable lifting device



The micron caliper

S_Cal Micron

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

		810.1900
Measuring range	mm	0-100
Max. Error	µm	4 ¹⁾
Repeatability	µm	2
Measuring force	N	2.5-3N
Beam	mm	5 x 20
Measuring surface	mm	6.5 x 12
S_Connect : Proximity		USB / RS232 / Digimatic / Wireless ²⁾
Tungsten carbide anvils		●
PRESET function		●
Smart Inductive Sensor		●
Stand 810.2210		●
Lifter 810.2215		●

¹⁾ ±

²⁾ see cables chapter

S_Cal + S_Cal Micron

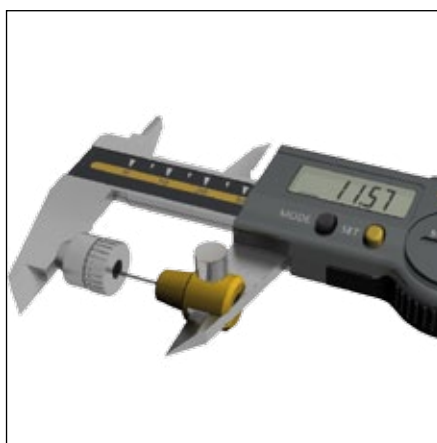
BASIC INSTRUMENT

- Instrument according to technical specifications - Lithium battery CR2032 included - Instruction manual	- Instrument according to technical specifications - Lithium battery CR2032 included - Instruction manual - Calibration certificate (S_Cal Micron)
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APPLICATIONS



Depth measurement

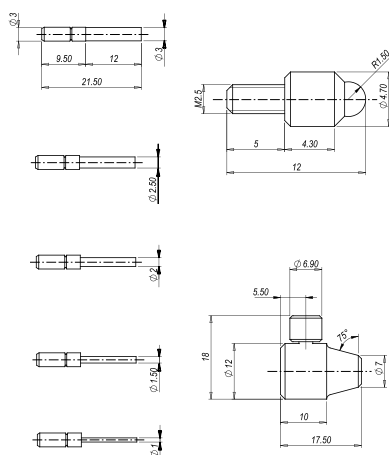


S_Cal with kit 910.2207
Depth measurement of small internal Ø



S_Cal Micron
Comparison measurement

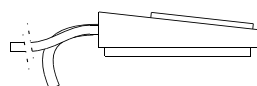
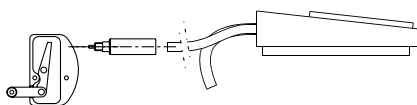
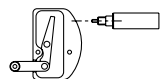
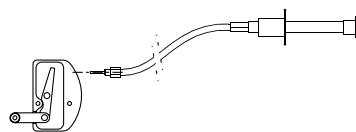
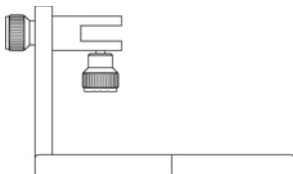
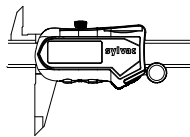
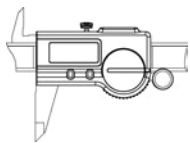
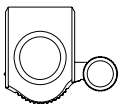
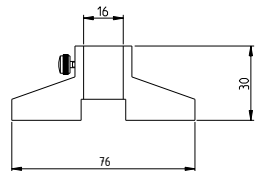
ACCESSORIES



		S_Cal PRO	S_Cal WORK	S_Cal ONE
910.2207	Accessory kit for S_Cal	•	•	•

S_Cal + S_Cal Micron

ACCESSORIES



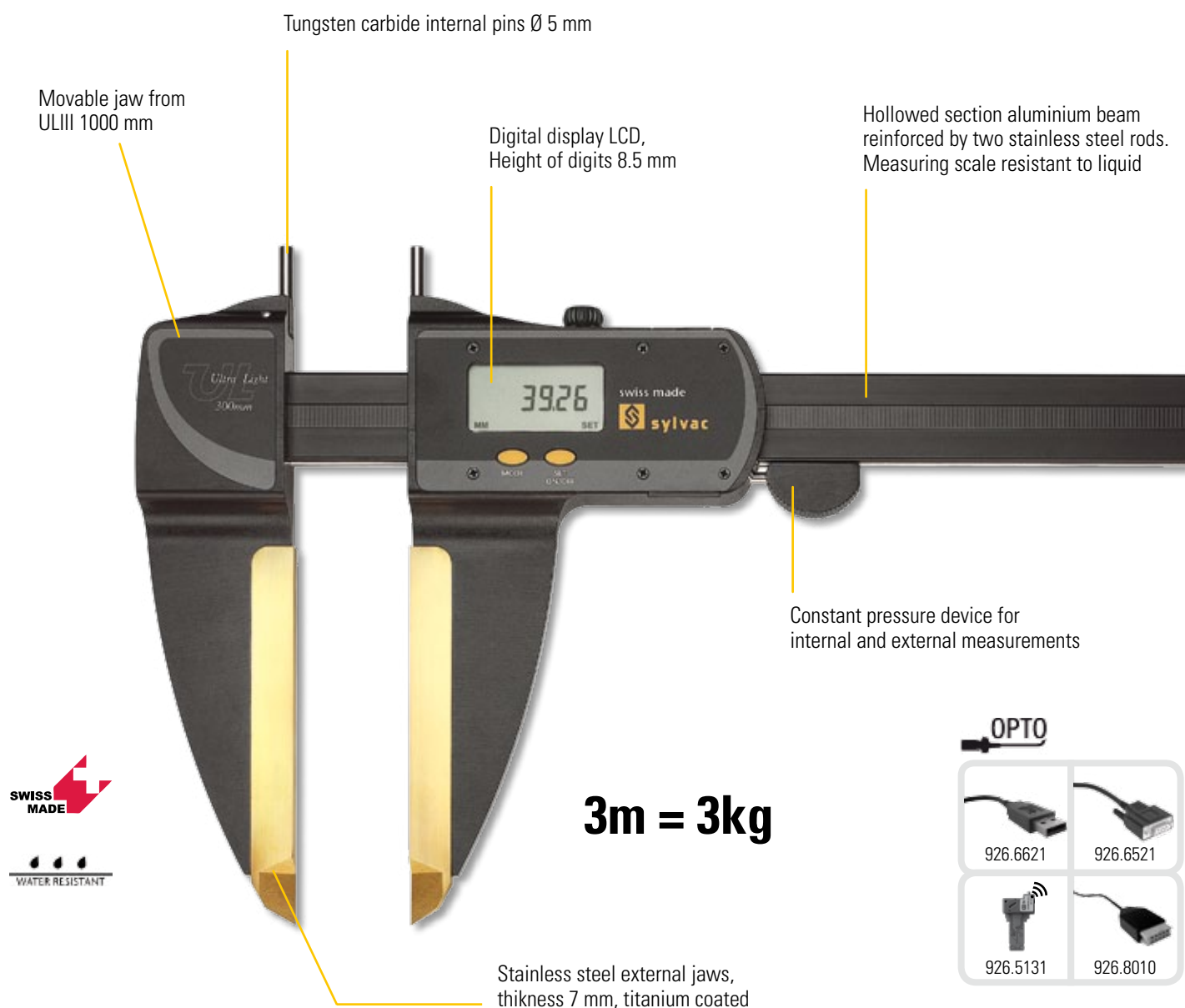
		S_Cal PRO	S_Cal WORK	S_Cal ONE	S_Cal Micron
910.2205	Base for Depth Measurement	●	●	●	
810.2201	Thumb wheel		●		
910.2201	Thumb wheel	●			
910.2202	Thumb wheel			●	
810.2210	Stand				●
810.2215	Lifting device with photo-cable				●
810.2216	Pneumatic lifting device				●
810.2217	Pneumatic lifting device with footpedal				●
810.2218	Foot-pedal only				●

Ultra light caliper

S_Cal UL

DESCRIPTION

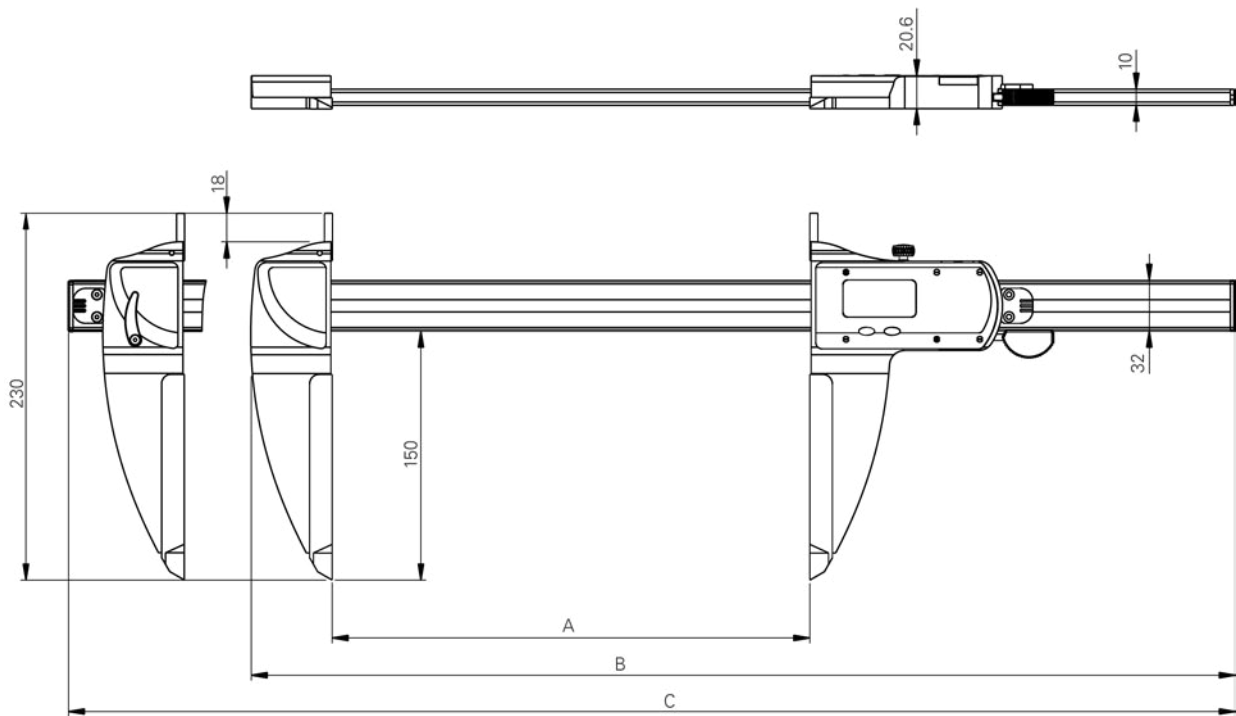
- Maximum speed of displacement : 1.5 m/sec
- Internal and external measurement
- This system ensures a perfect guidance and protects the beam against shocks
- Displays the upper and lower tolerances
- Extremely light instrument



Ultra light caliper

S_Cal UL

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

		911.1403	911.1406	911.1410	911.1415	911.1420	911.1425	911.1430
Measuring range	mm	300	600	1000	1500	2000	2500	3000
Max.Error	µm	30	40	60	120	150	200	250
Repeatability	µm	20	20	20	20	30	30	30
A	mm	330	630	1025	1525	2040	2545	3050
B fix	mm	618	918	1)	1)	1)	1)	1)
C mobile	mm	1)	1)	1306	1806	2306	2806	3306
Weight	kg	1.1	1.3	1.6	2	2.3	2.6	3
S_Connect : Opto		USB / RS232 / Digimatic / Wireless ²⁾						
Setting by PC					●			
Memory set					●			
2 references					●			
RESET function					●			
Min/Max function					●			
Tolerance limit indicators					●			

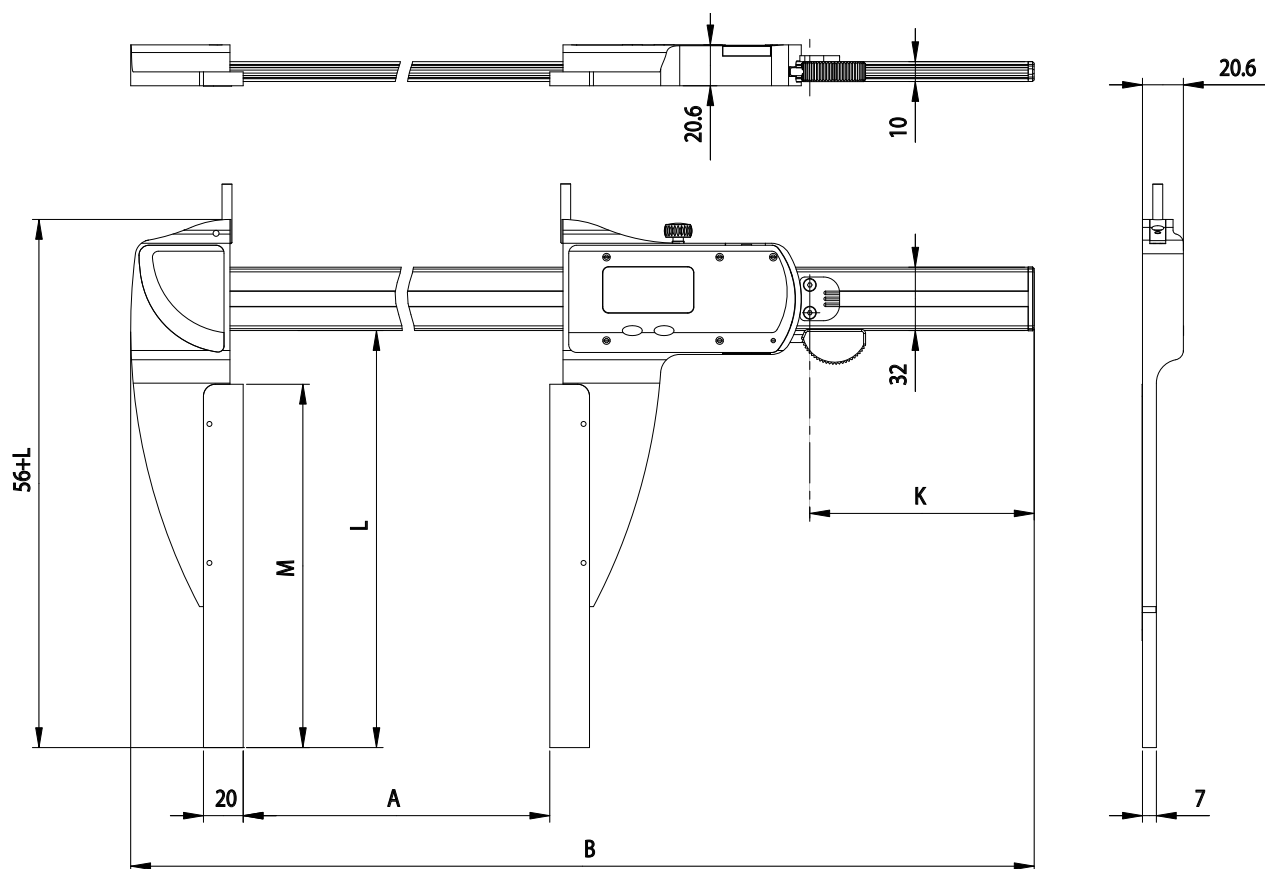
¹⁾ on request

²⁾ see cable chapter

Ultra light caliper

S_Cal UL

SPECIAL EXECUTIONS | SPECIAL JAWS TYPE A



TECHNICAL SPECIFICATIONS

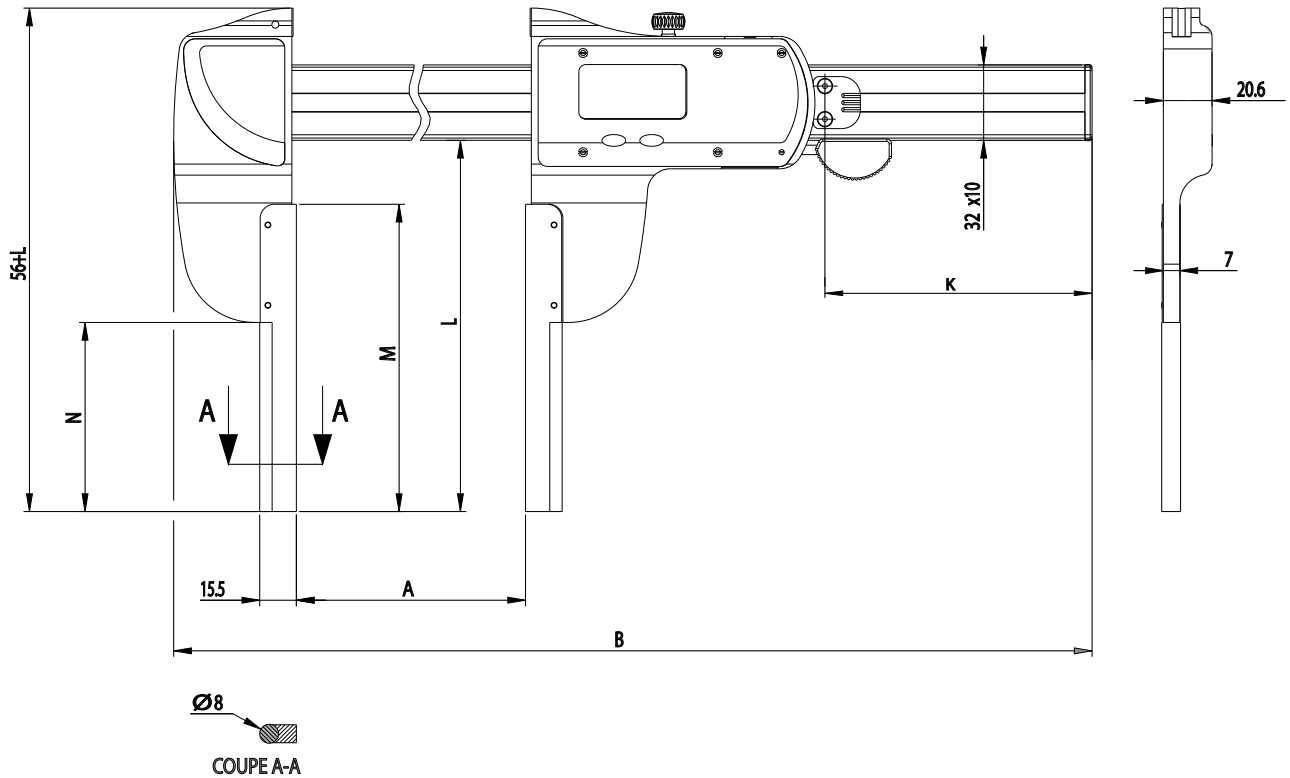
		911.2315.99	911.2316.99	911.2317.99
Special jaws (pair)		Lenght L to specify with order (max 400 mm)		
L	mm	≤ 200	≤ 300	≤ 400
M	mm	L - 25		

		UL 300	UL 600	UL 1000	UL 1500	UL 2000	UL 2500	UL 3000
UL specification		Max. error. [µm] / Repeatability [µm]						
With Jaws 911.2315.99		40 / 20	50 / 20	70 / 20	130 / 20	170 / 30	210 / 30	300 / 40
With Jaws 911.2316.99		50 / 30	60 / 30	90 / 30	150 / 30	200 / 40	300 / 40	400 / 50
With Jaws 911.2317.99		80 / 40	100 / 40	150 / 40	280 / 50	350 / 60	500 / 80	-
A	mm	320	602	1020	1530	2040	2520	3020
B	mm	618	918	1318	1818	2318	2818	3318
K	mm	110				90	110	

Ultra light caliper

S_Cal UL

SPECIAL EXECUTIONS | SPECIAL JAWS TYPE C



TECHNICAL SPECIFICATIONS

911.2319.99		
Special jaws (pair)		Lenght L to specify with order (max 300 mm)
L max	mm	300
M	mm	L - 25
N	mm	80
//	µm	≤ 150 mm = 60 / ≤ 200 mm = 80 / ≤ 300 mm = 100

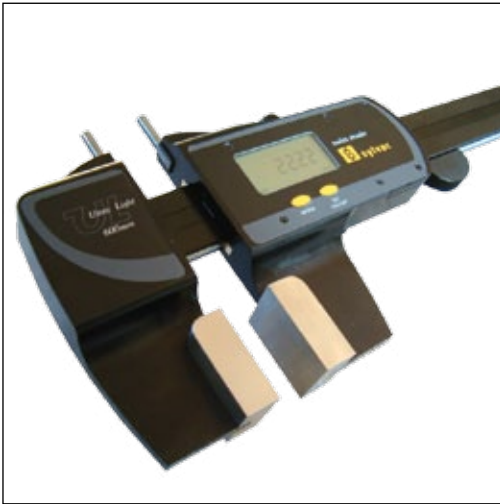
		UL 300	UL 600	UL 1000	UL 1500	UL 2000	UL 2500	UL 3000
UL specification		Max. error. [µm] / Repeatability [µm]						
With Jaws ≤ 150	mm	30 / 20	40 / 20	60 / 20	120 / 20	150 / 30	200 / 30	300 / 30
With Jaws ≤ 200	mm	40 / 20	50 / 20	70 / 20	130 / 20	170 / 30	210 / 30	300 / 40
With Jaws ≤ 300	mm	50 / 30	60 / 30	90 / 30	150 / 30	200 / 40	300 / 40	400 / 50
A	mm	344	644	1044	1544	2044	2544	3044
B	mm	618	918	1318	1818	2318	2818	3318
K	mm	110						

S_Cal UL

BASIC INSTRUMENT

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate for ULIII up to 1500

APPLICATIONS



Special S_Cal UL with modified measuring jaws.



Special S_Cal UL with extended measuring jaws.

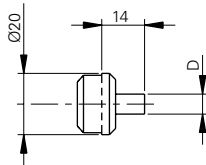


S_Cal UL, movable left jaw

S_Cal UL

ACCESSORIES

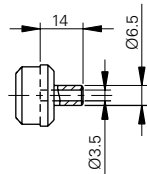
UL300-3000



911.2301

Support Ø 6.35 mm for thread measurement wires in holders, (pair)

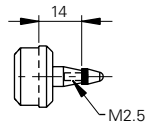
●



911.2302

Dito Ø 6.5 mm, (pair)

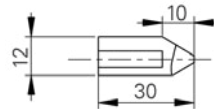
●



911.2303

Dito Ø 8 mm, (pair)

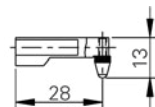
●



911.2304

Thread anvils holders for thread measurement., (pair)

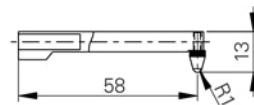
●



911.2305

Support with int. thread M 2.5 for measuring anvils, (pair)

●



911.2307

Inserts in hardened steel, cone 60° for bore clearance measurement > 10 mm, (pair)

●

911.2308

Holder for dial gauge contact points for internal groove measurement, (pair)

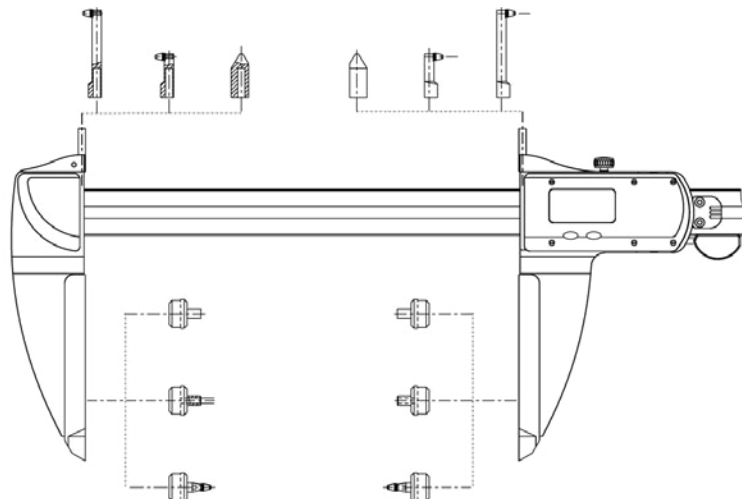
●

911.2309

Dito height 58 mm, (pair)

●

See also cables chapter

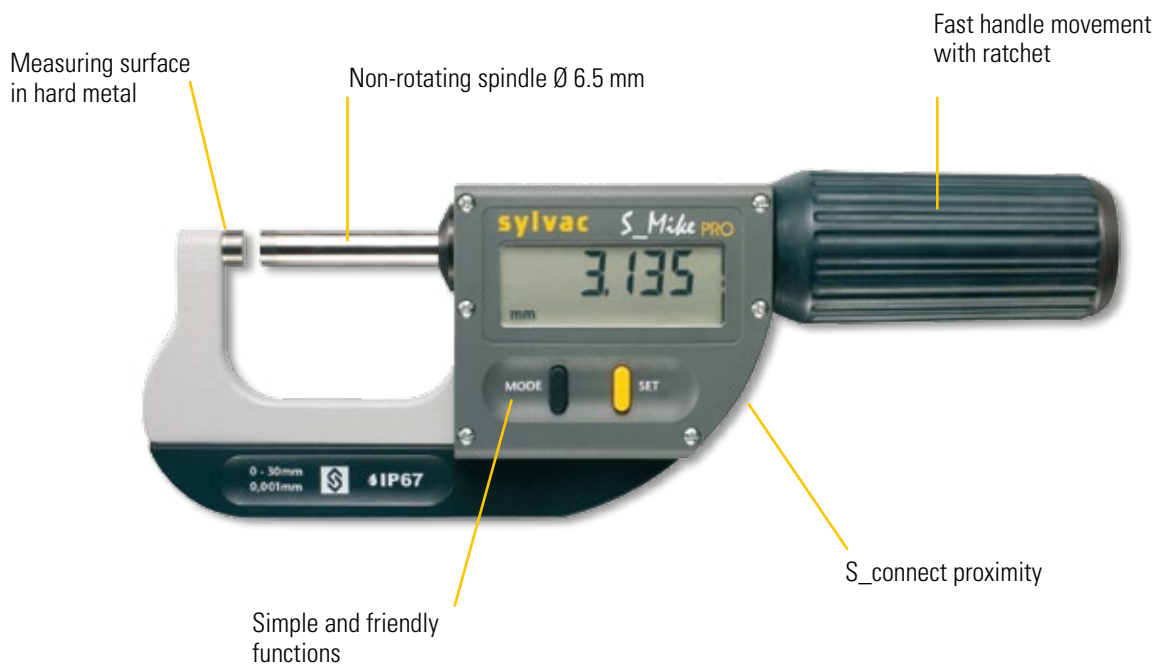


Professional micrometer

S_Mike PRO

DESCRIPTION

- Automatic wake-up by moving the measuring spindle (system S.I.S)
- Sleeping mode after 20 min. of no use (system S.I.S)
- Position memorized in sleeping mode (system S.I.S), **absolute system**
- Water protected for heavy-duty work with coolants and lubricants, protection rating IP67 according to IEC 60529, **even connected**
- Measuring range 0-102 mm **covered with 3 instruments only**
- Set of 3 micrometers 0-102 mm available
- Quick displacement of the measuring spindle 12 mm / rotation
- Adjustable measuring force 5N / 10N (versions 903.030X)
- Repeatability and reproducibility never reached before
- Thimble in polyacetal-copolymer



SIS | Smart Industrial System



IP67

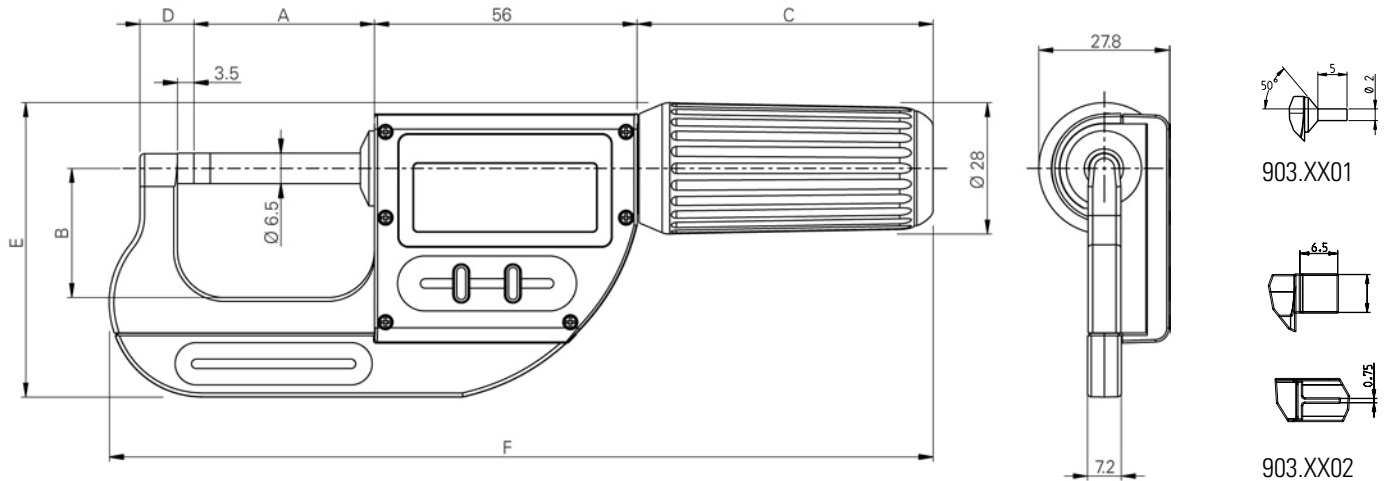
PROXIMITY



Professional micrometer

S_Mike PRO

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

		903.0300	903.0301	903.0302	903.0600	903.0601	903.0602	903.1000	903.1001	903.1002
Measuring range	mm	0-30	0-25	0-25	30-66	25-60	25-60	66-102	60-95	60-95
Max. Error G ¹⁾	µm	3	3	3	4	4	4	5	5	5
Repeatability ²⁾	µm	1	1	1	1	1	1	1	1	1
Anvils types		Ø6.5	Ø2	0.75x6.5	Ø6.5	Ø2	0.75x6.5	Ø6.5	Ø2	0.75x6.5
A	mm	38.5	33.5	33.5	74.5	69.5	69.5	110.5	105.5	105.5
B	mm	27.5	27.5	27.5	43	43	43	60	60	60
C	mm	63	63	63	75	75	75	75	75	75
D	mm	11.5	11.5	11.5	12.5	12.5	12.5	13.5	13.5	13.5
E	mm	63	63	63	85	85	85	106	106	106
F	mm	176	176	176	231	231	231	270	270	270
S_Connect : Proximity	USB / RS 232 / Digimatic / Wireless ³⁾									
Prot. rating accor. to IEC 60529	IP67 even connected									
Setting by PC	●									
Adjustable measuring force	5N / 10N Force 10N (5N on demand)									
Non-rotating spindle	●									
Fast movement	●									
Preset function	●									
Smart Inductive Sensor	●									

¹⁾ according to DIN 863

²⁾ ± 1 digit

³⁾ see cables chapter

Professional micrometer

S_Mike PRO

BASIC INSTRUMENT



903.1301



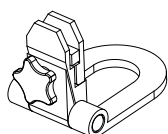
910.1301 including:
910.1502, 903.0300 et 903.0330

		903.1300	903.1301	910.1301
Measuring rang	mm	0-102	0-102	150 / 0-30
Plastic case		●		
Aluminium case			●	●

- Instrument according to technical specifications
- Pin gauge 50 mm (for 903.060X)
- Pin gauge 75 mm (for 903.100X)
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate

- 903.0300 / 0600 / 1000
- Pin gauge 50 mm
- Pin gauge 75 mm
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate

ACCESSORIES



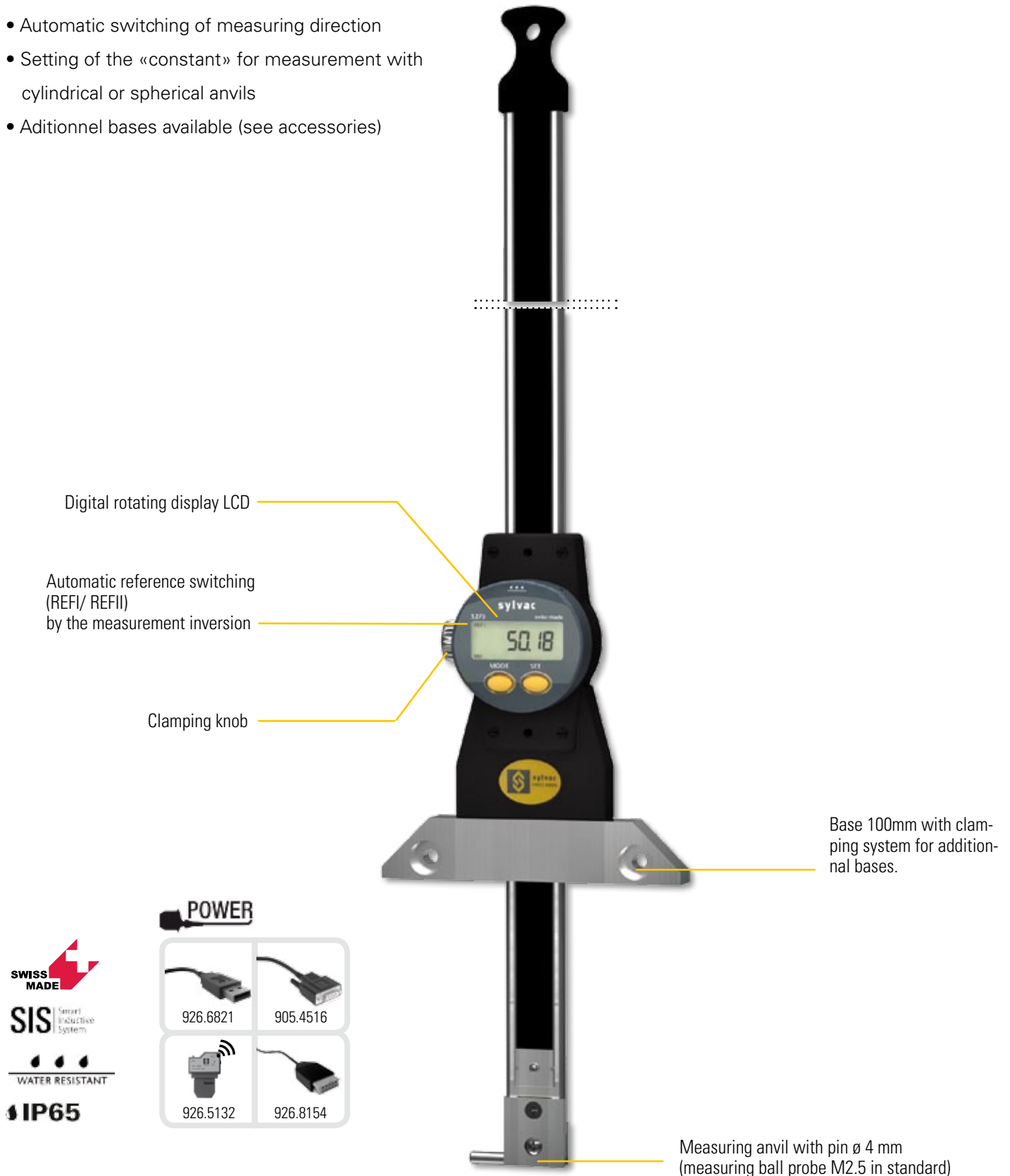
903.0330	Stand
903.0620	Pin gauge 50 mm
903.1020	Pin gauge 75 mm

Depth gauge

S_Depth PRO

DESCRIPTION

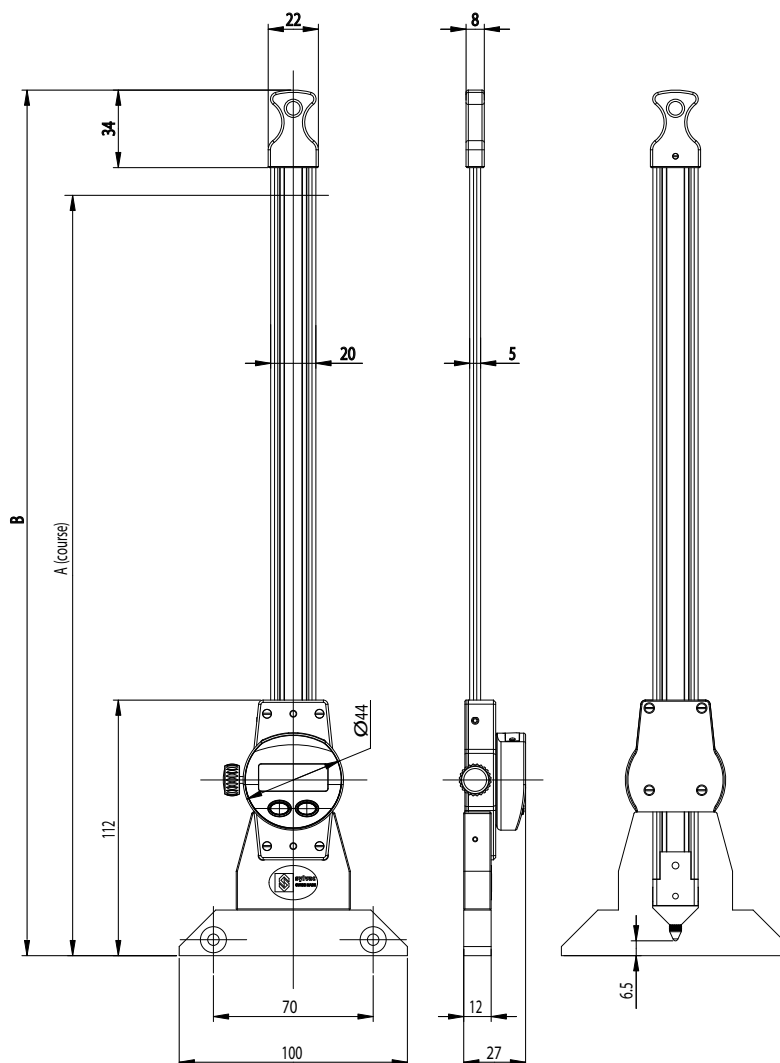
- PRESET function
- Automatic switching of measuring direction
- Setting of the «constant» for measurement with cylindrical or spherical anvils
- Additionnel bases available (see accessories)



Depth gauge

S_Depth PRO

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

		805.6005	805.6006
Measuring range	mm	300	600
Max. Error	µm	30	40
Repeatability ¹⁾	µm	10	10
A	mm	335	545
L	mm	483	693
S_Connect : Power	USB / RS232 / Digimatic / Wireless ²⁾		
2 References	●		
PRESET function	●		

¹⁾ ± 1 digit

²⁾ see cables chapter

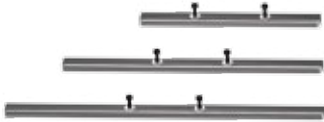
Depth gauge

S_Depth PRO

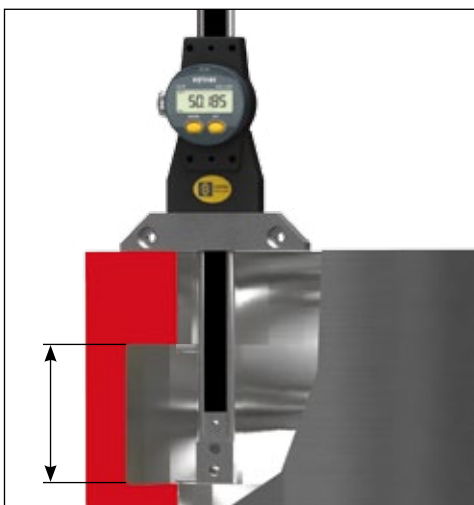
BASIC INSTRUMENT

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual

COMPATIBLE ACCESSORIES

			Length
	805.2180	Additionnal base	180 mm
	805.2260	Additionnal base	260 mm
	805.2320	Additionnal base	320 mm
	805.6101	Ball probe M2.5 (standard)	
	805.6102	Anvils UP&DOWN	
	805.6103	Anvil with pin Ø4 mm	

APPLICATIONS



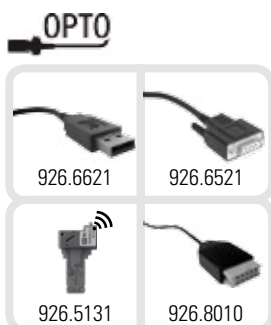
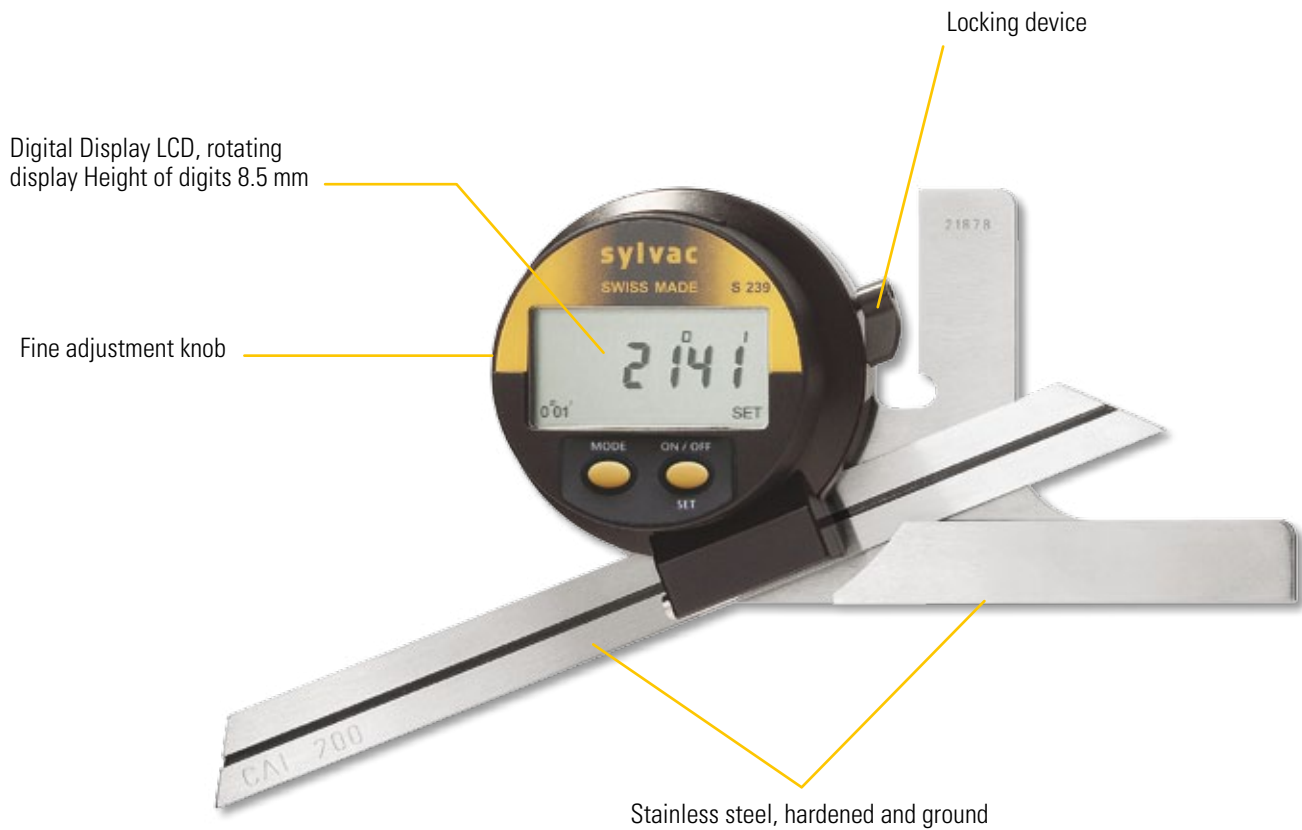
Measure of an internal groove (height) thanks to the constant.

Protractor

S239

DESCRIPTION

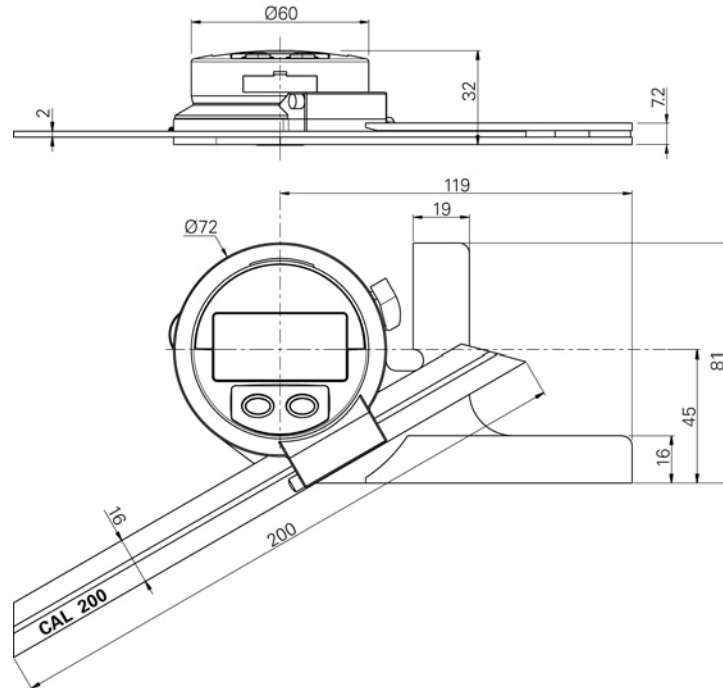
- Measuring range 1x360°, 2x180°, 4x90°
- Mechanical parts in stainless steel



Protractor

S239

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

		820.1700
Measuring range	mm	0-360°
Max. Error		4 minutes of arc
Resolution		1 minute of arc / 0.01°
Max. rotation speed		1080° / sec
Protection rating according to IEC 529		IP51
S_Connect : Opto		USB / RS232 / Digimatic / Wireless ¹⁾
Selection of measuring direction		●

¹⁾ see cables chapter

BASIC INSTRUMENT

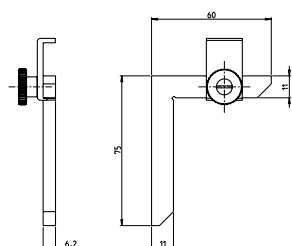
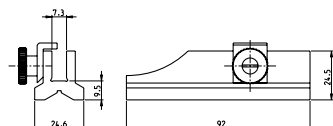
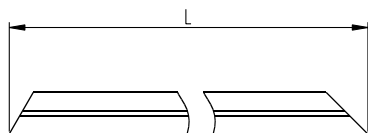
- Instrument according to technical specifications
- Wooden box ²⁾
- Scale 200 mm (820.2420)
- Lithium battery CR2032 included
- Instruction manual

²⁾ Fumigated, compatible ISPM 15 and NIMP 15

Protractor

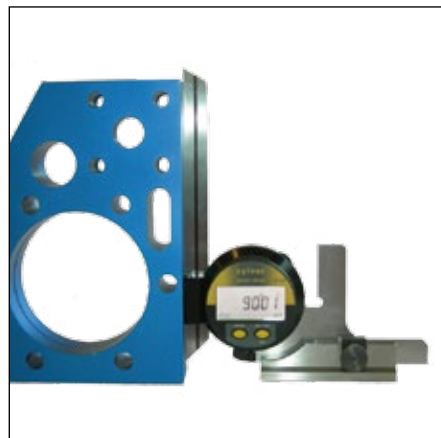
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ACCESSORIES



820.2420	Scale L 200 mm
820.2430	Scale L 300 mm
820.2450	Scale L 500 mm
820.2460	Stand for vertical application and small angular measurements
820.2461	Square for small angular measurements

APPLICATIONS



Measurement with accessory type 820.2460



Standard measurement



Measurement with accessory type 820.2461