SWISS MADE

sylvac

STEEN METROLOGY SYSTEMS

BESTSELLERS

EDITION 6

Smart Metrology for optimized productivity

MATTERHORN, SWITZERLAND











Validity : 2027

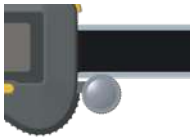
CALIPERS

S_Cal EVO Proximity

- High-quality, ergonomic caliper with Proximity data output
- Hardened stainless steel frame, thickness of 3.5 mm
- Optional thumb wheel available



Proximity cable to USB or to RS232
(USB : 926-6721 / RS232 : 926-6723)

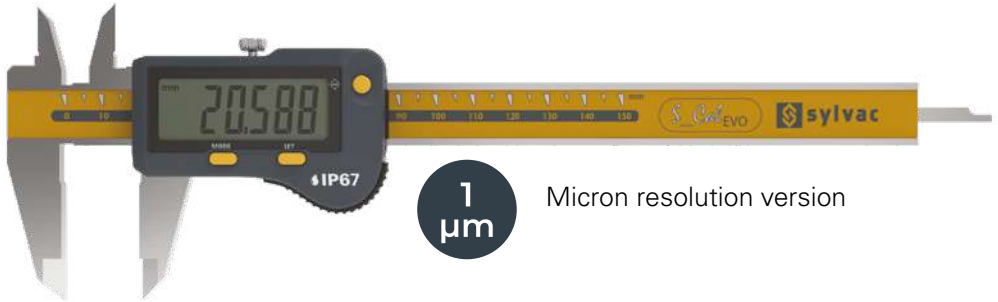


Thumb wheel for S_Cal EVO
(Proximity : 810-2205)



Anvils set for caliper
(910-2207)





1 µm

Micron resolution version

Technical specifications	810-1702	810-1707	810-1722	810-1732	810-9702	810-9707
Measuring range (mm)	150	150	200	300	150	150
Max. error external meas. E_{MPE} (µm)	20 [1]	20 [1]	20 [1]	30 [1]	15 [3]	15 [3]
Max. error internal meas. S_{MPE} (µm)	30 [2]	30 [2]	30 [2]	40 [2]	25 [4]	25 [4]
Resolution (mm)	0.01	0.01	0.01	0.01	0.001	0.001
Output data	Proximity					
Depth rod (mm)	4x1.4	Ø 1.5	4x1.4	-	4x1.4	Ø 1.5
Functions	Zero setting, Preset (max 999.99), mm/inch, Hold, Data					
Certificate	-				✔	

[1] 0-200 mm : 20 µm / ISO13385-1, >200-300 mm : 30 µm / ISO13385-1
[2] Ø4-25 : 20 µm / ISO13385-1, >25-200 : 30 µm / ISO13385-1, >200-300 : 40 µm / ISO13385-1
[3] 0-150 mm : 15 µm / ISO13385-1
[4] Ø4-25 : 20 µm / ISO13385-1, >25-150 : 25 µm / ISO13385-1

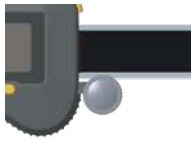
More information about the product

SWISS MADE

CALIPERS

S_Cal EVO Smart

- High-quality, ergonomic caliper with integrated Bluetooth® technology
- Hardened stainless steel frame, thickness of 3.5 mm
- Optional thumb wheel available



Thumb wheel for S_Cal EVO (Smart : 810-2203)



Anvils set for caliper (910-2207)





Micron resolution version

Technical specifications	810-1506	810-1516	810-1526	810-1536	810-9506	810-9516	810-9526
Measuring range (mm)	150	150	200	300	150	150	200
Max. error external meas. E_{MPE} (µm)	20 [1]	20 [1]	20 [1]	30 [1]	15 [3]	15 [3]	20 [3]
Max. error internal meas. S_{MPE} (µm)	30 [2]	30 [2]	30 [2]	40 [2]	25 [4]	25 [4]	30 [4]
Resolution (mm)	0.01	0.01	0.01	0.01	0.001	0.001	0.001
Output data	Bluetooth®	Bluetooth®	Bluetooth®	Bluetooth®	Bluetooth®	Bluetooth®	Bluetooth®
Depth rod (mm)	4x1.4	Ø 1.5	4x1.4	-	4x1.4	Ø 1.5	4x1.4
Functions	Zero setting, Preset (max 999.99), mm/inch, Hold, Data						
Certificate	-				✔		

[1] 0-200 mm : 20 µm / ISO13385-1, >200-300 mm : 30 µm / ISO13385-1
[2] Ø4-25 : 20 µm / ISO13385-1, >25-200 : 30 µm / ISO13385-1, >200-300 : 40 µm / ISO13385-1
[3] 0-150 mm : 15 µm / ISO13385-1, >150-200 mm : 20 µm / ISO13385-1
[4] Ø4-25 : 20 µm / ISO13385-1, >25-150 : 25 µm / ISO13385-1, >150-200 : 30 µm / ISO13385-1

More information about the product

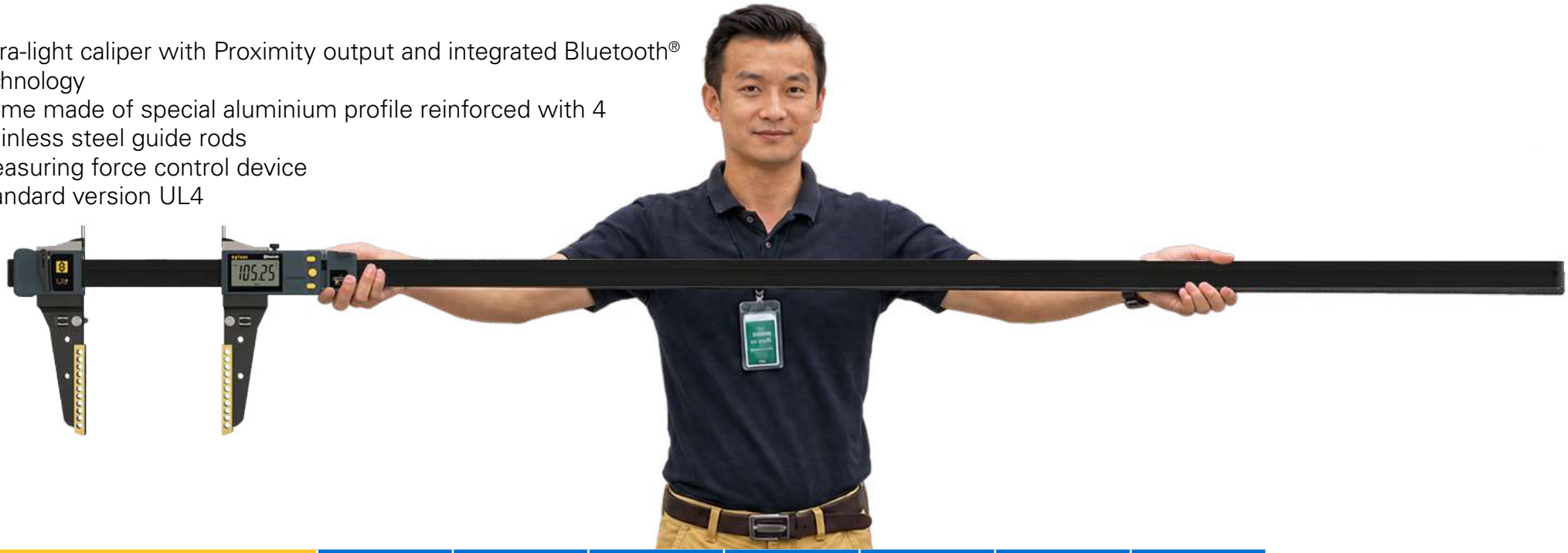
SWISS MADE

ULTRA-LIGHT LARGE CALIPERS

IP67 μA SWISS MADE

UL4 Standard

- Ultra-light caliper with Proximity output and integrated Bluetooth® technology
- Frame made of special aluminium profile reinforced with 4 stainless steel guide rods
- Measuring force control device
- Standard version UL4



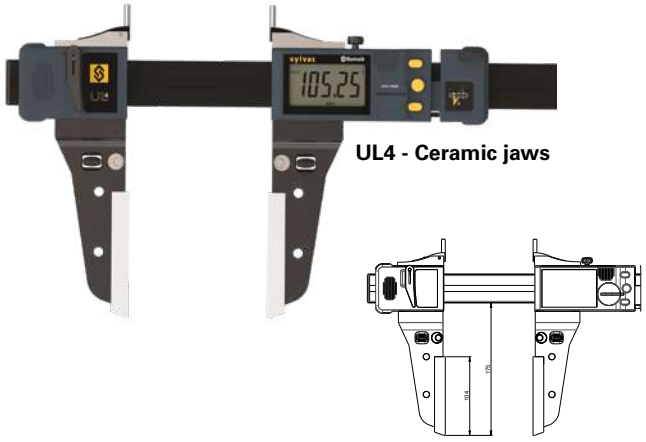
Technical specifications	811-1404	811-1406	811-1410	811-1415	811-1420	811-1425	811-1430
Measuring range (mm)	400	600	1000	1500	2000	2500	3000
Max. error (µm)	30	40	50	90	120	150	200
Repeatability (µm)	20	20	20	20	30	30	30
Resolution (mm)	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Output data	Bluetooth® & Proximity						
Weight (kg)	1.5	1.6	1.9	2.3	2.6	2.9	3.3
Measuring force (N)	7.5 - 11.5 (±20%)						
Functions	Zero setting, 2 references, min/max/delta, tolerances, Preset (max 9999.99), mm/inch, Hold						

More information about the product

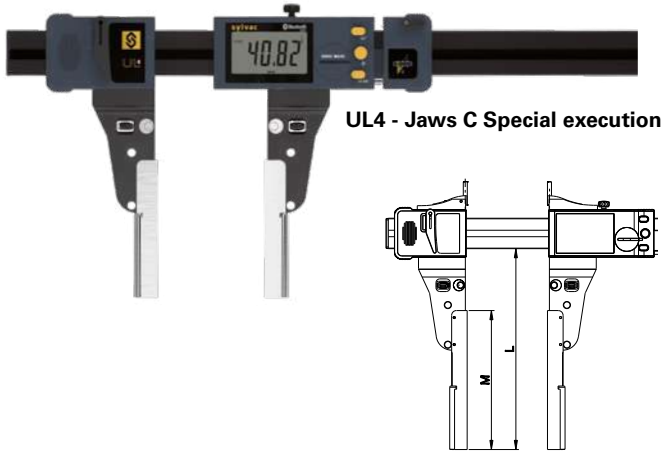
SPECIAL ULTRA-LIGHT CALIPERS

UL4 Ceramic Jaws, Jaws A, Jaws C

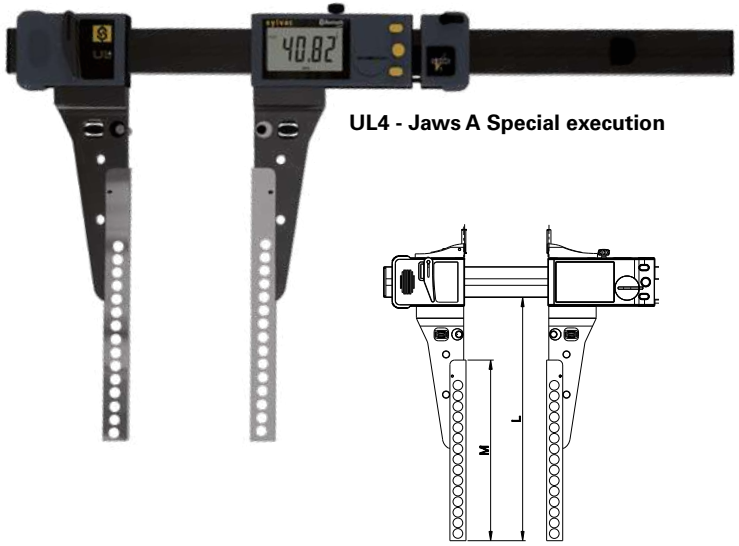
- Special execution of our Ultra-light caliper with Proximity output and integrated Bluetooth® technology
- Length of the jaws to specify with order for version A (max 400mm) and C (max. 300mm), must be mounted on the special UL of your choice (400 to 3000mm)



UL4 - Ceramic jaws



UL4 - Jaws C Special execution



UL4 - Jaws A Special execution

Technical specifications	811-2316-99	811-2317-99	811-2319-99	811-2320-99
Type	Jaws A	Jaws A	Jaws C	Ceramic
L (mm)	≤ 300	≤ 400	≤ 300	175
M (mm)	L - 75		L - 75	104
Output data	Bluetooth® & Proximity		& Proximity	& Proximity

More information about the product

SPECIAL ULTRA-LIGHT INSTRUMENTS

UL4 H & D

- Ultra-light caliper with Proximity output and integrated Bluetooth® technology
- Frame made of special aluminium profile reinforced with 4 stainless steel guide rods
- Measuring force control device
- Special versions ULD & ULH



ULD4

Technical specifications	814-1510	814-1515	814-1520	814-1525	814-1530
Type			ULD4		
Measuring range (mm)	1000	1500	2000	2500	3000
Max. error (µm)	60	90	120	150	200
Repeatability (µm)	20	20	20	20	30
Resolution (mm)	0.01	0.01	0.01	0.01	0.01
Output data	Bluetooth® & Proximity				



ULH4

Technical specifications	811-8040	811-8060	811-8100	811-8150	811-8200	811-8250	811-8300
Type				ULH4			
Measuring range (mm)	400	600	1000	1500	2000	2500	3000
Max. error (µm)	30	40	50	90	120	150	200
Repeatability (µm)	20	20	20	20	30	30	30
Resolution (mm)	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Output data	Bluetooth® & Proximity						

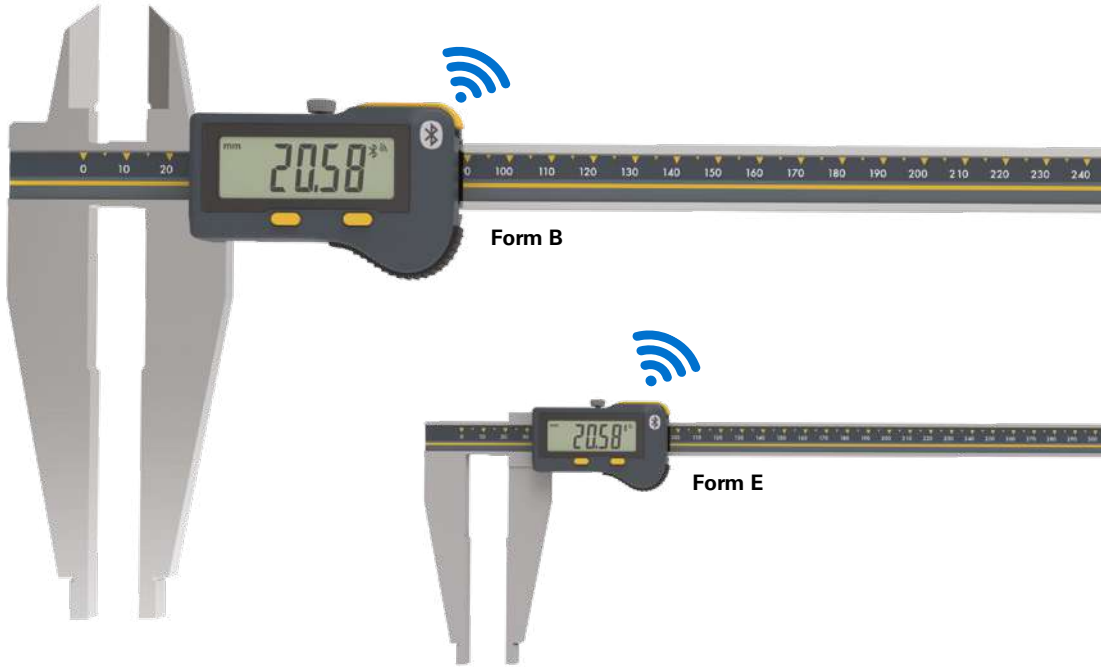
More information about the product

SWISS MADE

CALIPERS

S_Cal EVO Form E & B

- High-quality, ergonomic caliper, with integrated Bluetooth® technology, type E or B
- 100mm long jaws for external measurements
- Hardened stainless steel frame, thickness of 5 mm



Technical specifications	810-1547	810-1549	810-1557	810-1559
Measuring range (mm)	300	500	300	500
Type	E	E	B	B
Max. error external meas. E_{MPE} (µm)	± 30 [1)]	± 50 [1)]	± 30 [1)]	± 50 [1)]
Resolution (mm)	0.01	0.01	0.01	0.01
Output data	Bluetooth®	Bluetooth®	Bluetooth®	Bluetooth®
Section (mm)	17x5	17x5	17x5	17x5
Functions	Zero setting, Preset (max 999.99), mm/inch, Hold, Data			

[1)] 0-50 mm : ±20 µm / ISO13385-1
>50-300 mm : ±30 µm / ISO13385-1
>300-400 mm : ±40 µm / ISO13385-1
>400-500 mm : ±50 µm / ISO13385-1

More information about the product

SWISS MADE

MINI DIGITAL INDICATORS

S_Dial MINI Basic & Smart

- Smallest digital indicator on the market available in Basic version or Smart version with integrated Bluetooth® technology
- High precision
- Clamping stem Ø 8h6





Measuring a part with an S_Dial MINI Smart.

Technical specifications	805-4121	805-4125	805-4521	805-4525	805-6121	805-6123	805-6125	805-6521	805-6523	805-6525
Type	Basic	Basic	Basic	Basic	Smart (c)	Smart	Smart	Smart (c)	Smart	Smart
Measuring range (mm)	12.5									
Analog scale	-	-	-	-	✔	✔	✔	✔	✔	✔
Resolution (mm)	0.01	0.01	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001
Output data	Power	Power	Power	Power	Bluetooth®	Bluetooth®	Bluetooth®	Bluetooth®	Bluetooth®	Bluetooth®
Execution [2]	S	P	S	P	S	S	P	S	S	P
Max. error fe (µm)	10	10	4	4	10	10	10	4	4	4
Repeatability (µm)	2									
Measuring force (N) [1]	0.5 – 0.9	0.6 – 1.3	0.5 – 0.9	0.6 – 1.3	0.5 – 0.9	0.5 – 0.9	0.6 – 1.3	0.5 – 0.9	0.5 – 0.9	0.6 – 1.3
Protection	IP54	IP67	IP54	IP67	IP67	IP67	IP67	IP67	IP67	IP67
Functions	Zero setting, Preset, Selection of measuring direction				Zero setting, Preset, Selection of measuring direction, chang. resolution, multi. factor, min/max/delta					
SCS Certificate (ISO 17025)	-		✔		-			✔		

[1] Values ± 20%, indicator in vertical position, outgoing measuring spindle, [2] S=Standard and P=Protected, (c) = with lifting cap

More information about the product

SWISS MADE

DIGITAL INDICATORS

S_Dial WORK Advanced & Smart

- Digital indicator with data output Proximity/Power and with integrated Bluetooth® technology (According to Model)
- Housing Ø59.5mm, rotatable by 270°
- Practical functions
- Flexible measuring range 12.5 to 150mm





Technical specifications	805-5301	805-5501	805-5621	805-5661	805-5681	805-6301	805-6501	805-6621	805-6661
Type	Advanced	Advanced	Advanced	Advanced	Advanced	Smart	Smart	Smart	Smart
Measuring range (mm)	12.5	25	50	100	150	12.5	25	50	100
Resolution (mm)	0.001					0.001 / 0.0001		0.001	
Output data	Proximity/Power					Bluetooth®			
Max. error fe (µm)	3	4	5	6	10	3	4	5	6
Repeatability (µm)	2								
Measuring force (N) [1]	0.65 – 0.9	0.65 – 1.15	1.1 – 2.6	1.8 – 3.8	2.6 – 5.7	0.65 – 0.9	0.65 – 1.15	1.1 – 2.6	1.8 – 3.8
Protection	IP54								
Functions	mm/inch, ref I/II, preset (max 999.999), min/max/delta, tolerances, resolution, direction of measurement, multiplication factor, automatic or manual switch off, key lock								
SCS Certificate (ISO 17025)	✔								

[1] Tolerance ± 20%, spindle in outgoing measurement position

More information about the product

SWISS MADE

DIGITAL INDICATORS

S_Dial WORK Nano & Nano Smart

- Digital indicator with data output Proximity/Power and with integrated Bluetooth® technology (According to Model)
- Resolution 0.1 micron
- Housing Ø59.5mm, rotatable by 270°
- Practical functions



0.1 µm resolution

Technical specifications	805-5306	805-5506	805-6306	805-6506
Type	Nano	Nano	Nano Smart	Nano Smart
Measuring range (mm)	12.5	25	12.5	25
Resolution (mm)	0.0001			
Output data	Proximity/Power	Proximity/Power	Bluetooth®	Bluetooth®
Max. error fe (µm)	1.2	1.6	1.2	1.6
Repeatability (µm)	0.3			
Measuring force (N) [1]	0.65 – 0.9	0.65 – 1.15	0.65 – 0.9	0.65 – 1.15
Protection	IP54			
Functions	mm/inch, ref I/II, preset (max 999.999), min/max/delta, tolerances, resolution, direction of measurement, multiplication factor, automatic or manual switch off, key lock			
SCS Certificate (ISO 17025)	✔			

[1] Tolerance ± 20%, spindle in outgoing measurement position.

More information about the product

SWISS MADE

DIGITAL INDICATORS

S_Dial WORK PLC

- Digital indicator specially designed for integration and communication with the PLC and exploitation of the GO/NG signal.
- Wide range of functions
- Data outputs «Open connector» to use the instrument without battery and Proximity
- Selection of the communication protocol to be chosen between ASCII, MODBUS and ORBIT.



S_Dial WORK CBG

- Smart digital indicator specially developed to equip to equip 2-point bore gauges.
- Extremely simple operation, simplifying the operator's task.
- Storing 3 Preset values.



More information about the products

Technical specifications	805-7201	805-7301	805-7401	805-7501	805-6317
Type	PLC	PLC	PLC	PLC	CBG
Measuring range (mm)	12.5	12.5	25	25	12.5
Resolution (mm)	0.01	0.001	0.01	0.001	0.001
Max. error fe (µm)	10	4	10	5	3
Repeatability (µm)	2				2
Measuring force (N) [1]	0.65 – 0.9	0.65 – 0.9	0.65 – 1.15	0.65 – 1.15	0.65 – 0.9
Protection	IP54				IP54
Functions	mm/inch, preset (max 999.999), min/max/delta, tolerances, resolution, multiplication factor, automatic or manual switch off				Same as PLC
SCS Certificate (ISO 17025)	-	✔	-	✔	✔

[1] Tolerance ± 20%, spindle in outgoing measurement position.

SWISS MADE

DIGITAL INDICATORS

S_Dial PRO Smart

- Probe-level accuracy in a digital indicator
- 0.1 µm resolution backed by 0.2 µm repeatability
- Max. error 1.0 µm over 25 mm, 1.8 µm over 100 mm
- Same technology as the reference instrument of our M3 calibration kit
- SCS calibration certificate (ISO 17025) included
- Ø8 h6 or rigid Ø25 g7 clamping for fixtures and benches
- Bluetooth®, Proximity & Power outputs – battery-free operation via cable





Measuring a watch component with an S_Dial PRO Smart.

Technical specifications	805-8501	805-8601	805-8602	805-8661
Measuring range (mm)	25	50	50	100
Resolution (mm)	0.0001			
Data output	Bluetooth® / Proximity/Power	Bluetooth® / Proximity/Power	Bluetooth® / Proximity/Power	Bluetooth® / Proximity/Power
Max. error fe (µm)	1.0	1.2	1.2	1.8
Repeatability (µm)	0.2			
Measuring force (N) [1]	0.75 – 1.0	0.85 – 1.2	0.85 – 1.2	0.9 – 1.3
Clamping	ø8 h6		ø25 g7	ø8 h6
Spring	✔			
Protection	IP51			
Functions	mm/inch, ref I/II, preset (max 99.9999) min/max/delta, tolerances, resolution, measuring direction, multiplier, automatic/manual switch-off, keylock			
SCS Certificate (ISO 17025)	✔			

[1] The values agree within ± 20% (vertical down, measuring rod outgoing)

More information about the product

CALIBRATION SET FOR INDICATORS & UNIVERSAL CALIBRATION SOFTWARE

NEW PRODUCT

M3 Kit & Software **Sycopro** 3

M3 KIT CALIBRATION STAND

- Set for the periodic calibration of analogue and digital indicators up to 50 mm range as well as for lever indicators
- Calibration according to the Abbe principle
- Bench with rapid manual movement and fine final approach
- Set consisting of the M3 bench that can be used vertically or horizontally, the reference instrument and the Sycopro 3 software

SYCOPRO 3 CALIBRATION SOFTWARE

- Calibration software compliant with the requirements of the ISO 17025 standard
- One plateform for all instruments
- Fully and easily configurable
- Real time instrument status
- Generation of calibration certificates
- Export of calibration data



SYCOPRO 3
Calibration software

Technical specifications	809-1311	809-1312	809-1313
Type	Kit probe P25D M8 & D62S	Kit probe P25D USB	Kit S_Dial PRO 50mm
Measuring range (mm)	25	25	50
Max. error (µm)	0.8	0.8	1.2
Output data	M8	USB	Power to USB

981-7300
Software Sycopro 3 Digital license (included with calibration kits)

More information about the product

SWISS MADE

GAP TAPER GAGE

Taper Gage Smart

- Professional taper gage for gap and thickness measurement with integrated Bluetooth® technology
- Exceptional precision
- One-push operation to send the measurement





Example of measurement with a Gap Taper Gage.

Technical specifications	918-0005	918-0012	918-0025
Measurement capacity (mm)	0.5 – 5.5	0.5 – 17.5	12.5 – 28.5
Repeatability (µm)		10	
Max. error G (µm)		30	
Resolution (mm)		0.01	
Output data	Bluetooth®	Bluetooth®	Bluetooth®
Weight (g)	270	382	510
Functions		Preset	

More information about the product

SWISS MADE

GAP FEELER GAGE

Feeler Gage Smart

- Digital display of the total thickness of all blades that are outside the case
- With integrated Bluetooth® technology
- Blades thickness accuracy according to DIN 2275: 2014-03 class TC1
- Display resolution 0.01 mm and .001”





Measuring valves with Feeler Gage Smart

Technical specifications	921-0100	921-0110	921-0114
Measurement capacity (mm/inch)	0.05...1.00mm	0.04...1.00mm	0.0020...0.0310in
Thickness of feelers (mm/inch)	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00 mm	0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00 mm	0.0020, 0.0030, 0.0040, 0.0050, 0.0060, 0.0070, 0.0080, 0.0090, 0.0100, 0.0120, 0.0150, 0.0200, 0.0250, 0.0310 in
Total thickness of feelers (mm/inch)	10.5mm	6.64mm	0.157in
Number of blades	20	19	14
Output data	Bluetooth®	Bluetooth®	Bluetooth®
Protection	IP65		

More information about the product

MICROMETERS

S_Mike PRO Ø6.5mm

- High-speed micrometer with non-rotating spindle with data output Proximity or integrated Bluetooth® technology
- Ø6.5mm cylindrical anvils
- Different ranges of measurements available







Technical specifications	803-0300	803-0306	903-0600	903-0606	903-1000	903-1006	903-1366	903-1606
Measuring range (mm)	0-30	0-30	30-66	30-66	66-102	66-102	100-136	125-161
Max. error MPEJ [1] (µm)	3		4		5		7	8
Repeatability [2] (µm)	1						2	
Resolution (mm)	0.001	0.001 / 0.0001 [3]	0.001	0.001	0.001	0.001	0.001	0.001
Anvils type (mm)	Ø 6.5							
Output data	Proximity	Bluetooth®	Proximity	Bluetooth®	Proximity	Bluetooth®	Bluetooth®	Bluetooth®
Switchable measuring force (N)	5/10				10			
Functions	Preset, SIS, non-rotating spindle, fast movement, Setting by PC							
SCS Certificate (ISO 17025)	✔							

[1] According to DIN 863 / ISO 3611
[2] ± 1 digit
[3] All micrometers can be delivered with this resolution on request

More information about the product

MICROMETERS

SWISS MADE

S_Mike EVO Smart

- Micrometer with rotating spindle with integrated Bluetooth® technology
- 1 mm per revolution and resolution of 0.001 mm on the XXL display
- Ø6.5mm cylindrical anvils





Technical specifications	803-6025	803-6050	803-6075	803-6100
Measuring range (mm)	0-25	25-50	50-75	75-100
Max. error MPEJ [1] (µm)	2		3	
Repeatability [2] (µm)	1		2	
Anvils type (mm)	Ø 6.5			
Output data	Bluetooth	Bluetooth	Bluetooth	Bluetooth
Switchable measuring force (N)	7-10			
Functions	Preset, SIS, rotating spindle, setting by PC			
SCS Certificate (ISO 17025)	✔			

[1] According to DIN 863 / ISO 3611
[2] ± 1 digit

More information about the product

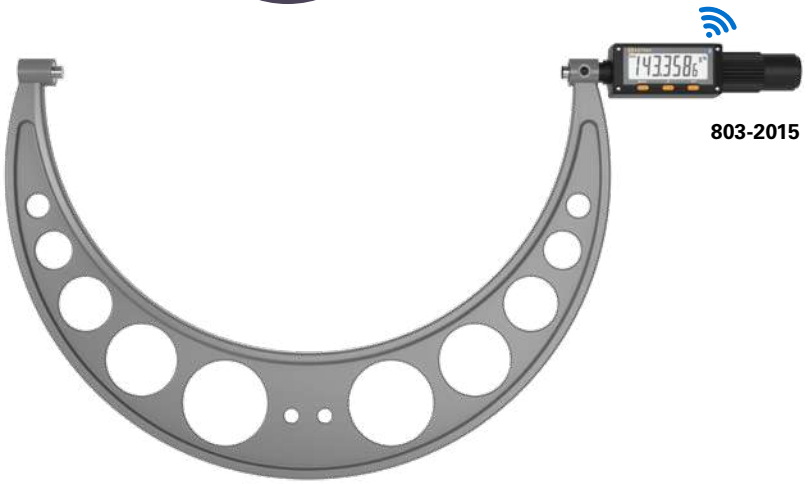
LARGE MICROMETERS

S_Mike LARGE Smart

- Large micrometers equipped with our Smart Bluetooth® digital micrometer head 803-6500.
- Ultra-light frame (welded tubular steel).
- Packaging in plastic or wooden box, with setting bars and extensions included.
- Calibration certificate for micrometer head and setting bars included.



803-6500



803-2015

Technical specifications	803-2015	803-2030	803-2040	803-2050	803-2060	803-2070	803-2080	803-2090	803-6500
Range (mm)	150-300	300-400	400-500	500-600	600-700	700-800	800-900	900-1000	30
Max. error MPEJ [1] (µm)	± 4	± 6	± 7	± 8	± 10	±11	± 12	± 14	3
Max. error spindle advance (µm)	3								-
Parallelism (µm)	3	5	6	7	8	9	10	11	-
Repeatability MPE_R [2] (µm)	≤ 1								
Output data	Bluetooth®								
Advance	2mm/rotation								
Functions	Preset, SIS, rotating spindle, fast movement, setting by PC								
Setting bars (mm)	150, 175, 200, 225, 250, 275	325, 375	425, 475	525-575	625-675	725-775	825-875	925-975	-
SCS Certificate (ISO 17025)	✔ [3]								

[1] According to DIN 863 / ISO 3611
[2] ± 1 digit
[3] only on the digital unit

More information about the product

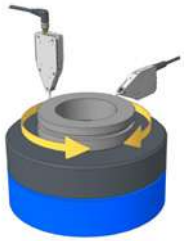
SWISS MADE

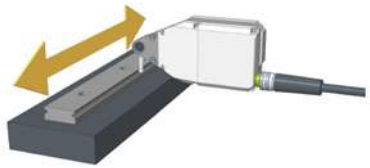
LEVER PROBE DIGITAL

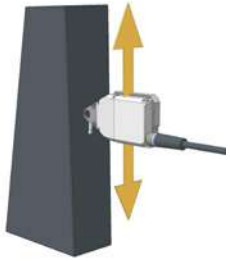
SWISS MADE

S_Probe LPD Wired

- Lever probe digital with direct output (USB, M8 or OPEN)
- Exceptional resolution of 0,01 µm
- Compatible with Sylvac display units, Sylcom, Vmux2 and PLC (OPEN cable version only)









Technical specifications	801-3012	801-3212	801-3412
Type	LPD USB	LPD M8	LPD OPEN
Measuring force (cN) [1]	4 - 19 cN ±20% / 2 - 9 cN ±20% [1]		
Measuring range (mm)	+ 0.6 / +1.3 [1]		
Resolution (µm)	0.01		
Stylus length (mm)	12.5 / 32.3 [1]		
Max. error - Local max. error (µm)	0.8 / 2 [1] - 0.3 / 0.7 [1] [2]		
Repeatability (µm)	0.07 / 0.15 [1]		
Max. hysteresis (Fu) (µm)	0.5 / 1 [1]		
Weight (g)	92 [3]		
Output data	USB	M8	OPEN
SCS Certificate (ISO 17025)	✔		

[1] with stylus 32.3 mm, reference 801-8004, option
[2] max. local error over 50µm, unidirectional
[3] instrument without cable

More information about the product

LEVER PROBE DIGITAL

S_Probe LPD Smart

- Lever probe digital with integrated Bluetooth® technology
- Exceptional resolution of 0,01 µm
- Compatible with Sylvac display units, Sylcom and Vmux2



Standard probe

Long probe (801-8004)



Example of measurement with a LPD Smart.

Technical specifications	801-3006
Type	LPD Smart
Measuring force (cN) [1]	4 - 19 cN ±20% / 2 - 9 cN ±20% [1]
Measuring range (mm)	+ 0.6 / +1.3 [1]
Resolution (µm)	0.01
Stylus length (mm)	12.5 / 32.3 [1]
Max. error - Local max. error (µm)	0.8 / 2 [1] - 0.3 / 0.7 [1] [2]
Repeatability (µm)	0.07 / 0.15 [1]
Max. hysteresis (Fu) (µm)	0.5 / 1 [1]
Weight (g)	112
Output data	Bluetooth®
SCS Certificate (ISO 17025)	✔

[1] with stylus 32.3 mm, reference 801-8004, option [2] max. local error over 50µm, unidirectional

More information about the product

ABSOLUTE DIGITAL PROBE

SWISS MADE
0.01 µm

S_Probe P12D

- Absolute digital probe with direct digital output to USB, M8 or OPEN
- Measuring range of 12.7mm
- Maximal error of 0.6 or 1.8µm and repeatability of 0.15 or 0.2µm

M8 cable

USB cable

OPEN cable



Technical specifications	801-1012	801-1018	801-1212	801-1218	801-0212	801-0012	801-0412
Type	P12D HR USB	P12D HR USB CF	P12D HR M8	P12D HR M8 CF	P12D WORK M8	P12D WORK USB	P12D OPEN
Measuring range (mm)	12.7						
Force (N) [1]	0.2 – 0.3	0.08 [2]	0.2 – 0.3	0.08 [2]	0.4 – 0.8		
Repeatability (µm)	0.15				0.2		
Resolution (µm)	0.01				0.1		
Max. error (µm)	0.6				1.8		
Output data	USB		M8		M8	USB	OPEN
SCS Certificate (ISO 17025)	✔						

[1] ± 20%, vertical position
[2] CF = constant force : usable only vertically, rod pointing downwards (without spring)

More information about the product

ABSOLUTE DIGITAL PROBE

S_Probe P25D Wired

- Absolute digital probe with direct digital output to USB, M8 or OPEN
- Measuring range of 25.4mm
- Maximal error of 0.8µm and repeatability of 0.08µm





Watch component measurement with P25D.

Technical specifications	801-1225	801-1228	801-1229	801-1235	801-1238
Type	P25D M8	P25D USB	P25D OPEN	P25D M8 CF	P25D USB CF
Force (N) [1]	0.6 – 1.2			0.15 [2]	
Measuring range (mm)	25.4				
Resolution (µm)	0.01				
Max. error (µm)	0.8				
Repeatability (µm)	0.08				
Output data	M8	USB	OPEN	M8	USB
SCS Certificate (ISO 17025)	✔				

[1] ±20%, vertical position
[2] CF = constant force : usable only vertically, rod pointing downwards (without spring)

More information about the product

ABSOLUTE DIGITAL PROBE

SWISS MADE

S_Probe P25D Smart

- Absolute digital probe with integrated Bluetooth® technology
- Measuring range of 25.4mm
- Maximal error of 0.8µm and repeatability of 0.08µm

Powered by
AA battery or
USB-C cable





Example of measurement with a P25D Smart.

Technical specifications	801-1626	801-1636
Type	P25D Smart	P25D Smart CF
Force (N) [1]	0.6 – 1.2	0.15 [2]
Measuring range (mm)	25.4	
Resolution (µm)	0.01	
Max. error (µm)	0.8	
Repeatability (µm)	0.08	
Output data	Bluetooth	Bluetooth
SCS Certificate (ISO 17025)	✔	

[1] ±20%, vertical position
[2] CF = constant force : usable only vertically, rod pointing downwards (without spring)

More information
about the product

DISPLAY UNIT

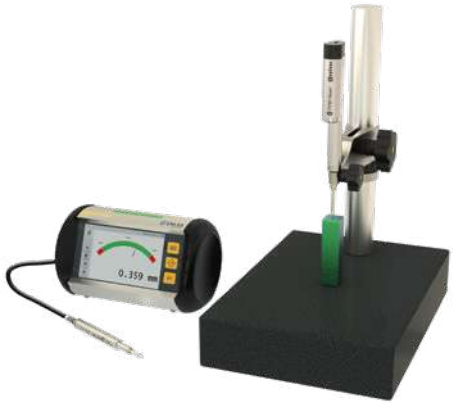
NEW PRODUCT

µA 0.01 µm

Display Unit D65S Standard & Advanced

- Digital display unit for 2 Sylvac absolute digital probes and Bluetooth® instruments
- Touch screen 4.3”
- With integrated Bluetooth® technology, battery integrated (≥8h), global tolerance and date/clock (depends on version).
- The battery allows to use the display unit without any power supply.





Technical specifications	804-1065	804-1066
Type	Standard	Advanced
Inputs	2x M8 for Sylvac absolute digital probes	
Resolution (µm)	0.01	
Max. error (µm)	P25D HR : 0.8	
Repeatability (µm)	P25D HR : 0.08	
Protection	IP40 (face IP65)	
Output data	USB / RS232	Bluetooth®
Functions	Indicator of the global tolerance, Battery and RTC	

More information about the product

SWISS MADE

DISPLAY UNIT

NEW PRODUCT

0.01 µm

Display Unit D75 I, H & A

- New version of the popular D70 units
- Available in 3 versions : inductive probes, Heidenhain probes and Air gauges
- Larger screen 5" with high resolution
- 1 or 2 input(s), up to 3 characteristics displayed
- Color-coded tolerance indicators
- Memory for 10 programs along with sorting into 16 configurable classes
- Bluetooth host with Dongle Smart
- Compatible with M-Bus modules
- USB and RS232 (ASCII/Modbus RTU) ports



Technical specifications	804-2080	804-2083	804-2081	804-2082
Type	D75I	D75H	D75A - 1	D75A - 2
Inputs	2		1	2
Types of probes	Sylvac Inductive probes, Metro, Tesa, Mahr, Marposs, Peter Hirt	Incremental Heidenhain, rules & coders (Sinus 11 µA, 1Vpp, TTL), Magnescale, Mitutoyo, LG	Air gage and plug gages (all brands)	
Overall dimensions (mm)	132x105x111			
Max. error (µm)	According to instruments			
Protection	IP65			
Output data	USB / RS232 / ASCII / Modbus RTU			

More information about the product

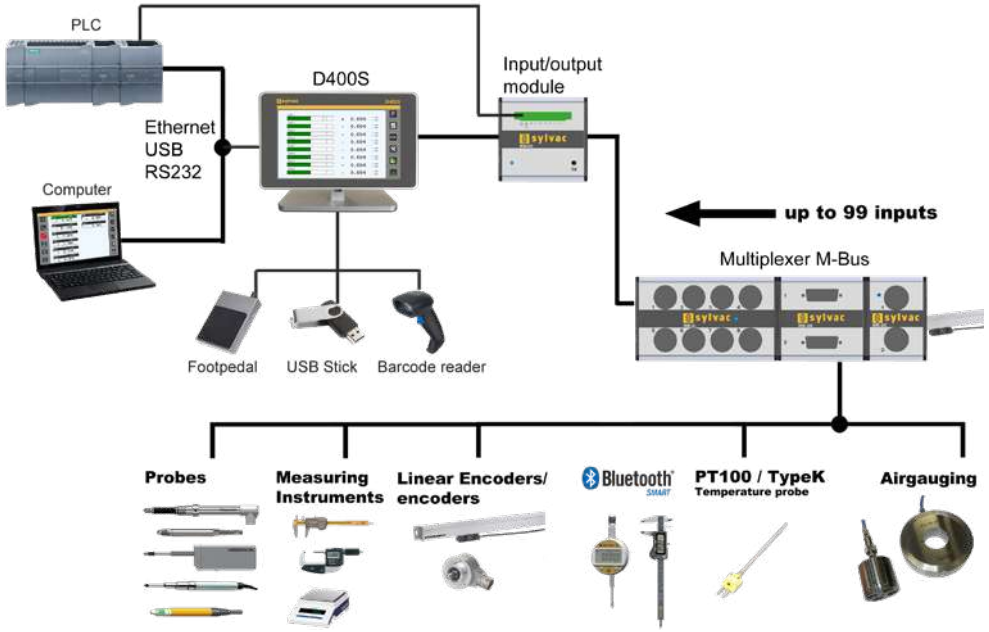
SWISS MADE

DISPLAY UNIT

Display Unit D400S

- Multifunction digital display unit for multigauging applications
- Up to 99 instruments of different makes and 32 channels through M-BUS
- Robust construction and mounting versatility





Technical specifications	804-2400
Type	D400S
Inputs	up to 99 instruments
Overall dimensions (mm)	200x143x151.6
Max. error (µm)	According to probes/instruments
Protection	IP65 (front face)
Output data	USB/RS232

More information about the product

SWISS MADE

MULTIPLEXERS MODULES



Multiplexer M-BUS

- Large range of M-Bus Interfacing Modules designed for probes, PLC, power supply, computer, temperature sensor or Bluetooth® instrument.
- Input/Output data RS485

Technical specifications	**804-2105**	**804-2107**	**804-2108**	**804-2111**	**804-2114**
Model	FMB-4P [1]	FMB-4i [1]	MB-8i	MB-1D	MB-4D
Compatibility	D300S/D400S				
Type of instruments	Probes P12D/ P25D	Inductive probes		Digimatic probes	
Inputs	4	4	4	1	4

Technical specifications	**804-2130**	**804-2132**	**804-2133**	**804-2161**
Model	MB-I/O	MB-NET	MB-RO	FMB-MA [1]
Compatibility	D300S/D400S/D70	D400S/D70		Computer
Type of instruments	PLC I/O	Ethernet connector for server sending	Relay output	Computer
Inputs	8	1	1	254

Technical specifications	**804-2134**	**804-2170**	**804-2180**	**804-2190**
Model	MB-1R	MB-TP	MB-BT	MB-AG
Compatibility	D300S/D400S/D70			D400S/D70
Type of instruments	All instrument types with RS232 connection	Temperature sensor input PT100	Instruments with Bluetooth® technology	Plug/ air gauges
Inputs	1	1/1	8	1

[1] F = fast

More information about the product

SWISS MADE

INTERNAL MICROMETERS

Xtreme3 XT3D & XT3H

- Bore gauge is equipped with integrated Bluetooth® Technology and output Proximity
- Version XT3D (digital) and XT3H (pistol type with quick retraction handle)
- Delivered with UKAS (ISO 17025) certificate



XT3D



XT3H

Reference XT3D	Reference XT3H	Measuring range (mm)	Depth (mm)	Max. error (µm)	Ø ring (mm)	Output data
950-6011	954-6011	6 - 8	58	4	8	& Proximity
950-6012	954-6012	8 - 10	58	4	8	& Proximity
950-6013	954-6013	10 - 12.5	58	4	12.5	& Proximity
950-6014	954-6014	12.5 - 16	62	4	12.5	& Proximity
950-6015	954-6015	16 - 20	62	4	20	& Proximity
950-6016	954-6016	20 - 25	66	4	20	& Proximity
950-6017	954-6017	25 - 35	66	4	35	& Proximity
950-6018	954-6018	35 - 50	80	4	35	& Proximity
950-6019	954-6019	50 - 65	80	5	65	& Proximity
950-6020	954-6020	65 - 80	80	5	65	& Proximity
950-6021	954-6021	80 - 100	100	5	80	& Proximity
950-6022	954-6022	100 - 125	115	6	125	& Proximity

More information about the product

INTERNAL MICROMETERS

Set SXTD-U BT

- Complete sets delivered with box containing all the necessary items and calibration rings
- Bluetooth® Technology and Proximity integrated
- Resolution 0.001mm
- Delivered with UKAS (ISO 17025) certificate



Interchangeable measuring heads



Complete set
951-7105

Technical specifications	951-7103	951-7104	951-7105	951-7106
Type	SXTD3U-BT	SXTD4U-BT	SXTD5U-BT	SXTD6U-BT
Measuring range (mm)	6-10	10-20	20-50	50-100
Number of instruments	2	3	3	3
Number of heads	2	3	3	3
Number of rings	1	2	2	2
Output data	Bluetooth® & Proximity			

More information about the product

BENCH TABLE

PS16V2 Smart

- All-in-one horizontal measuring bench with integrated measuring system and display
- Output data Proximity/Power and with integrated Bluetooth® technology
- Resolution de 0.001mm
- Sylvac anvils Ø1.5mm





Technical specifications	808-1231	808-1232
Type	PS16 V2-25	PS16 V2-50
Measuring range (mm)	25	50
Max. error (µm)	1.5	2.0
Repeatability (µm)	0.2	
Output data	Bluetooth® / Proximity/Power	Bluetooth® / Proximity/Power
Adjustable measuring force (N) [1]	0.1 – 0.6	
Measuring direction	Horizontal	
Anvils fixation (mm)	Ø1.5	Ø1.5
Cary compatibility	✔	✔
Weight (kg)	3.6	4.2
SCS Certificate (ISO 17025)	✔	

[1] Values ± 20%

More information about the product

SWISS MADE

BENCH TABLE

Bench table PS15

- Compact bench for small parts up to 10mm
- Versatile and customizable: option to mount a probe or digital indicator for measurement, as well as a wide range of anvils and tables



Technical specifications	**808-1215**	**808-1216**	**808-1218**
Type	PS15BH	PS15BV	PS15BV+
Measurement capacity (mm)	20	20	20
Measuring range (mm)	10	10	10
Max. error (µm)	According to measuring system : probe or digital indicator		
Adjustable measuring force (N) [1]	0.3 – 1.0	0.3 – 1.0	0.3 – 1.0
Measuring direction	Horizontal	Vertical	Vertical
Anvils fixation (mm)	Ø1.5	M2.5	Ø1.5
Cary compatibility	✔	✔	✔
Weight (kg)	1.8	1.8	1.8

[1] Values ± 20%

More information about the product

SWISS MADE

HEIGHT GAUGES

Hi_Gage ONE Smart

- Tracing and measuring height gauge with integrated Bluetooth® technology and data output Power and Proximity
- Intuitive and versatile
- Measuring range 400 or 600mm
- Resolution 0.01mm



Clamping stem
905-2247



Ruby ball Ø8mm
840-9001



Tracing probe (standard delivery)
840-9002



Technical specifications	840-0406	840-0606
Type	Hi_Gage 400	Hi_Gage 600
Measuring range (mm)	400	600
Resolution (mm)	0.01	
Output data	Bluetooth® / Proximity/Power	Bluetooth® / Proximity/Power
Max. error (µm)	40	50
Repeatability (µm)	10 [1)]	10 [1)]
Functions	2 references, Preset, Selection of measuring direction, SIS	

[1)] +/- 1 digit

More information about the product

SWISS MADE

HEIGHT GAUGES

Hi_Cal V2 Smart

- Smart motorized 1D workshop measuring height gauge with integrated Bluetooth® system and battery
- Variable and progressive displacement speed according to the pressure exerted on the paddle
- Perfectly suited for the rapid measurement of heights, depths, thicknesses, internal and external diameters, centre-to-centre distances, etc
- Very small cast iron base equipped with 3 ground hard metal runners, requiring only a small working space





Technical specifications	830-0156	830-0306	830-0456
Type	Hi_Cal 150	Hi_Cal 300	Hi_Cal 450
Measuring range (mm)	150	300	450
Max. error (µm)	2.0 + L / 200 [1]		
Repeatability (µm)	1		
Resolution (mm)	0.01 / 0.001 / 0.0005		
Output data	Bluetooth® & Power & Proximity –> USB/RS232		
Velocity (mm/s)	100		
Displacement	Motorised		
Measuring force (N)	0.25 – 0.35		
Autonomy (h)	up to 40 [2]		
Weight (kg)	4.0	4.7	6.8
Functions	Zero setting, Min/Max/Delta, Preset, 2 ref, Measurements Ø, h and centers distances, setting by PC		
SCS Certificate (ISO 17025)	✔		

[1] With standard probe, in laboratory conditions [2] Autonomy of the battery: 8h/d at 20% use, 16h/d standby

More information about the product

SWISS MADE

OPTICAL MEASUREMENT

Sylvac-SCAN S25/S25T

- Optical machine for cylindrical parts up to Ø26mm
- Optional tilting optics for true thread measurement at the helix angle
- Operator touch panel for ease of use
- Quick release tool system
- Measure your parts in only a few seconds



Bone-Screws



Dental implants



Small components



Fasteners



902-4025

0.1 µm

Automation Ready

Technical specifications	**902-4025**		**902-4020**	
Type	S25T		S25	
	Diameter	Length	Diameter	Length
Measuring range (mm)	26	200	26	200
Resolution up to (mm)	0.0001			
Max. error (µm) [1]	0.9 +(D[mm]/100)	2.5 +(L[mm]/200)	0.9 +(D[mm]/100)	2.5 +(L[mm]/200)
Repeatability 2**σ** (µm)	0.5	0.8	0.5	0.8
Holding capacity (mm)	51	200	51	200
Tilting for thread measurement °	30		-	
Axial move speed (mm/s)	up to 100			
Max. weight of the part (kg)	3			
Weight of the machine (kg)	73			

[1] 20° C ± 1° C

More information about the product

SWISS MADE

OPTICAL MEASUREMENT

Sylvac-SCAN S65/S65T/S76/S76T

- Optical machine for cylindrical parts up to Ø65mm or Ø76mm
- Optional tilting optics for true thread measurement at the helix angle
- Operator touch panel for ease of use
- Quick release tool system
- Measure your parts in only a few seconds



General turned part



Automotive part



Aerospace parts



Machine components



902-4272

902-4265



Technical specifications [1]	**902-4265 / 902-4260**		**902-4275 / 902-4270**		**902-4267 / 902-4262**		**902-4277 / 902-4272**	
Type	S65T / S65		S76T / S76		S65LT / S65L		S76LT / S76L	
	Diameter	Length	Diameter	Length	Diameter	Length	Diameter	Length
Measuring range (mm)	65	350	76	350	65	700	76	700
Resolution up to (mm)	0.0001							
Max. error (µm) [2]	D : < 1 +(D[mm]/100) / L : < 3 +(L[mm]/200)							
Repeatability 2**σ** (µm)	< 0.5	< 1.0	< 0.5	< 1.0	< 0.5	< 1.0	< 0.5	< 1.0
Tilting for thread measurement °	✔ [3]		✔ [3]		✔ [3]		✔ [3]	
Axial move speed (mm/s)	160							
Max. weight of the part (kg)	30							

[1] Preliminary specifications, subject to change without prior notice.
[2] 20° C ± 1° C
[3] only on «T» versions

More information about the product

SWISS MADE

OPTICAL MEASUREMENT

Sylvac-SCAN S145/S145L/S145XL/S185L

- Optical machine for cylindrical parts up to Ø145mm or Ø185mm
- For parts up to 100kg
- Easy to use Reflex-SCAN+ software
- Optional version with integrated touch probe can be ordered for internal / blind features such as keyways



Heavy industry



Defense industry



Large precision parts



XXL turning parts



902-4150



902-4147

0.1 µm



Version S145 with probe (option)

Automation Ready

Technical specifications	902-4145		902-4147		902-4148		902-4150	
Type	S145		S145L		S145XL		S185L	
	Diameter	Length	Diameter	Length	Diameter	Length	Diameter	Length
Measuring range (mm)	145	615	145	1280	145	1800	185	1800
Resolution up to (mm)	0.0001							
Max. error (µm) [1]	1.5 +(D[mm]/100)	4 +(L[mm]/200)	1.5 +(D[mm]/100)	4 +(L[mm]/200)	1.5 +(D[mm]/100)	4 +(L[mm]/200)	1.5 +(D[mm]/100)	4 +(L[mm]/200)
Repeatability 2σ (µm)	0.5	1	0.5	1	0.5	1	0.5	1
Holding capacity (mm)	254	615	254	1280	254	1800	254	1800
Axial move speed (mm/s)	up to 160							
Max weight of the part (kg)	100							
Weight of the machine (kg)	530		650		797		TBD	

[1] 20° C ± 1° C

More information about the product

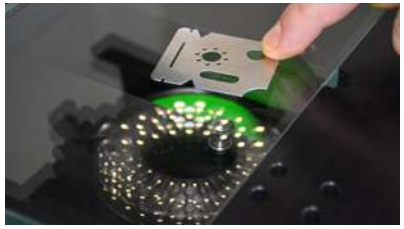
SWISS MADE

OPTICAL MEASUREMENT

0.1 µm

Sylvac-VISIO 200 & 300

- Optical video measuring system
- Robust construction for durability
- 3 types of lighting
- Software Reflex-VISTA with large range of functions as 2D CAD comparison and DXF file import

Applications





Version with manual zoom

Version with motorised zoom

Technical specifications	902-2210	902-2211	902-2310
Type	Visio 200 MAN	Visio 200 MOT	VISIO 300
Measuring volume (mm)	200x100x150		300x200x150
X, Y Accuracy (E_1, X, Y) (µm)	1.9 + 10L/1000 (L = mm) [1)/ 3)]		1.9 + 4L/1000 (L = mm) [1)/ 3)]
XY Accuracy (E_2, XY) (µm)	2.4 + 10L/1000 (L = mm) [1)/ 3)]		2.4 + 4L/1000 (L = mm) [1)/ 3)]
Z Accuracy (E_1, Z) [2)] (µm)	2.9 + 10L/1000 (L = mm)		2.9 + 10L/1000 (L = mm)
Resolution (mm)	0.001		
Max. load capacity (kg)	10		20
Magnification (screen 23.8")	24x – 144x (12x – 288x with additional lenses)		
Zoom	Manual 4x	Motorised 6x	
Weight of the machine (kg)	98		170
International Standards	EN61000-6-2, EN61000-6-4, EN61326-1, EN12100-1, EN12100-2		

[1)] m < 5 kg [2)] mechanical accuracy [3)] at glass plate level

More information about the product

SWISS MADE

DATA ACQUISITION SOFTWARE

Sylcom LITE, Standard, PRO, Expert

- Smart data acquisition and processing software allowing to view, save and analyze values from instruments connected via cable and/or Bluetooth®.
- Stands out from other quality software on the market thanks to its ease of use and flexibility.
- Different versions available depending on the number of instruments to be connected and the desired functionalities.



Sylcom LITE

FREE VERSION
- Basic functions

www.sylvac.ch/sylcom

Sylcom STANDARD

- Includes all basic functions

+ STANDARD FUNCTIONS
- Up to 15 instruments via cable and/or 16 via Bluetooth® connection
- Customized flatness and formulas

981-7129 (digital), 981-7132 (dongle)

Sylcom PRO

- Includes all Standard functions

+ PRO FUNCTIONS
- Up to 128 instruments via cable and 16 via Bluetooth® connection
- SPC export
- Action programming
- Mixed measurements
- Control plan mode
- Traceability fields
- Skip measurement or inspection
- Show only active characteristic

981-7240 (digital), 981-7245 (dongle)

Sylcom EXPERT

- Includes all PRO functions

+ EXPERT FUNCTIONS
- Up to 500 instruments in «On the fly» mode
- OPC-UA
- CLOUD monitoring
- Statistics display
- APC - Advanced Process Control

981-7250 (digital), 981-7255 (dongle)



981-7102
Transmission up to 20m / 80m LR



981-7103
Transmission up to 25m / 90m LR

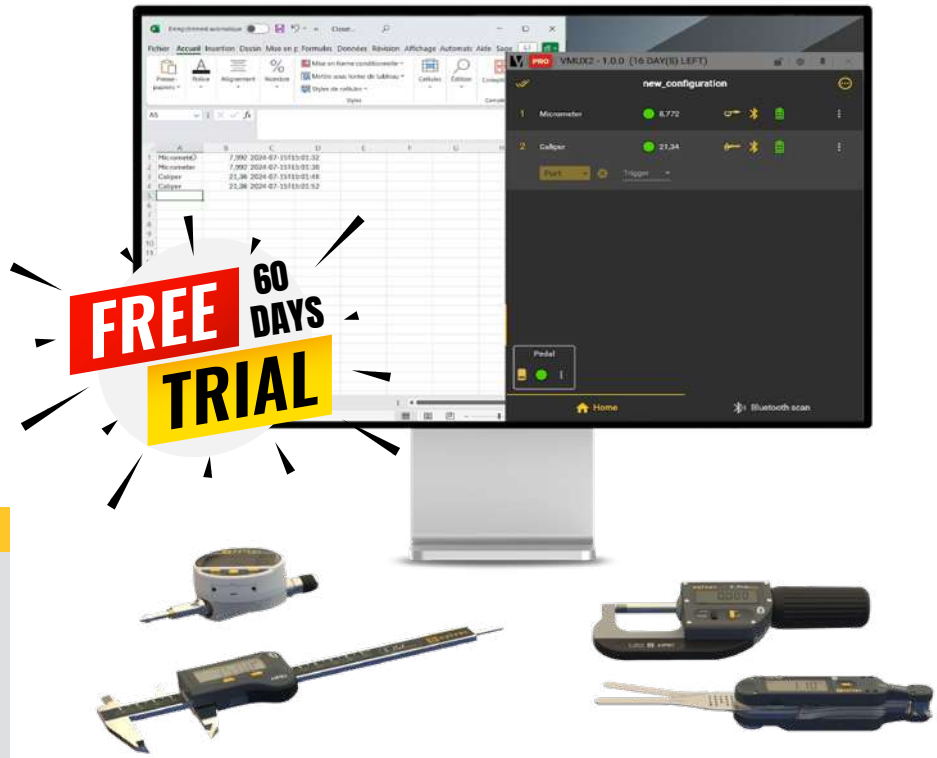
More information about the product

SWISS MADE

VIRTUAL MULTIPLEXER SOFTWARE

Vmux2 LITE, Standard & Pro

- Virtual interface software allowing to connect Sylvac instruments to Windows in order to transfer the values to Excel or any other software.
- Gateway between the instruments and the destination software.



Vmux 2 LITE

FREE VERSION
- Basic functions

www.sylvac.ch/vmux

Vmux 2 Standard

- Includes all basic functions

+ STANDARD FUNCTIONS
- 1 dongle with up to 16 instruments connected
- Automatic instrument selection
- Manage calibration date

www.sylvac.ch/vmux

Vmux 2 Pro

- Includes all Standard functions

+ PRO FUNCTIONS
- Up to 64 instruments connected
- Sending instrument-specific commands

www.sylvac.ch/vmux



981-7102
Transmission up to 20m / 80m LR



981-7103
Transmission up to 25m / 90m LR

More information about the product

SWISS MADE

SYLVAC ANYWHERE 2

Smart measurements, connected from anywhere.



Download

Android

Apple

Validity : 2027

sylvac

STEEN METROLOGY SYSTEMS

S.M.S Steen Metrology Systems
Rue T. Gerkens 74, 4052 Chaudfontaine (Belgium)
Tel. +32 4 368 70 80
sales@smsbenelux.be
www.smsbenelux.be

version 17.11.26

Images may differ from reality.