

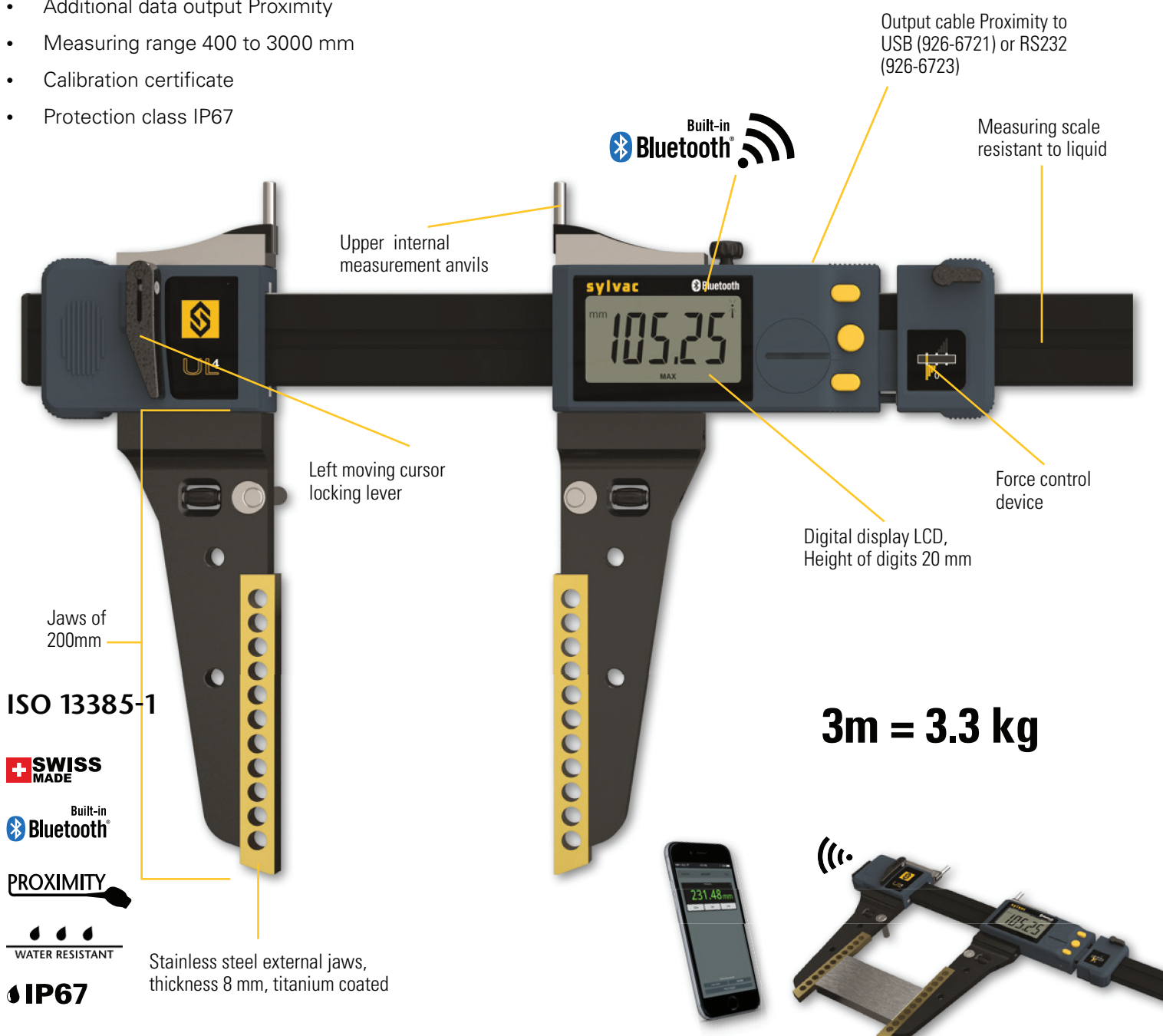
Ultra light caliper

UL4

DESCRIPTION

- Ultra-light, large callipers with integrated Bluetooth® system
- Frame made of special aluminium profile reinforced with 4 stainless steel guide rods
- New XXL display unit with digits 20 mm high
- Three buttons, including the central button with selectable favourite function
- Measuring force control device
- Long outer jaws 200 mm with measuring part made of hardened steel 124 x 8 mm coated with titanium nitride (TiN)
- On request, our UL4 callipers with jaws up to 400 mm long are available (please specify when ordering).
- Lever-lockable movable left jaw
- Removable upper studs with hardened metal pin Ø 5 mm for internal measurements
- Additional data output Proximity
- Measuring range 400 to 3000 mm
- Calibration certificate
- Protection class IP67

C

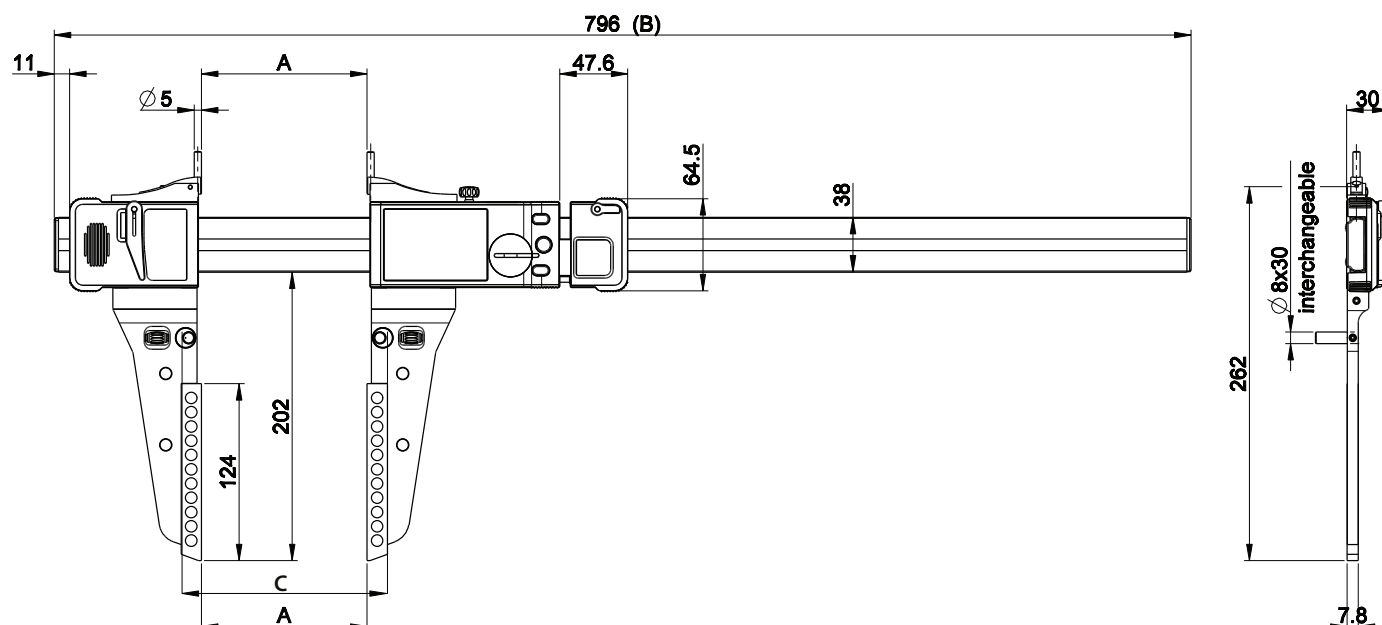




Ultra light caliper

UL4

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

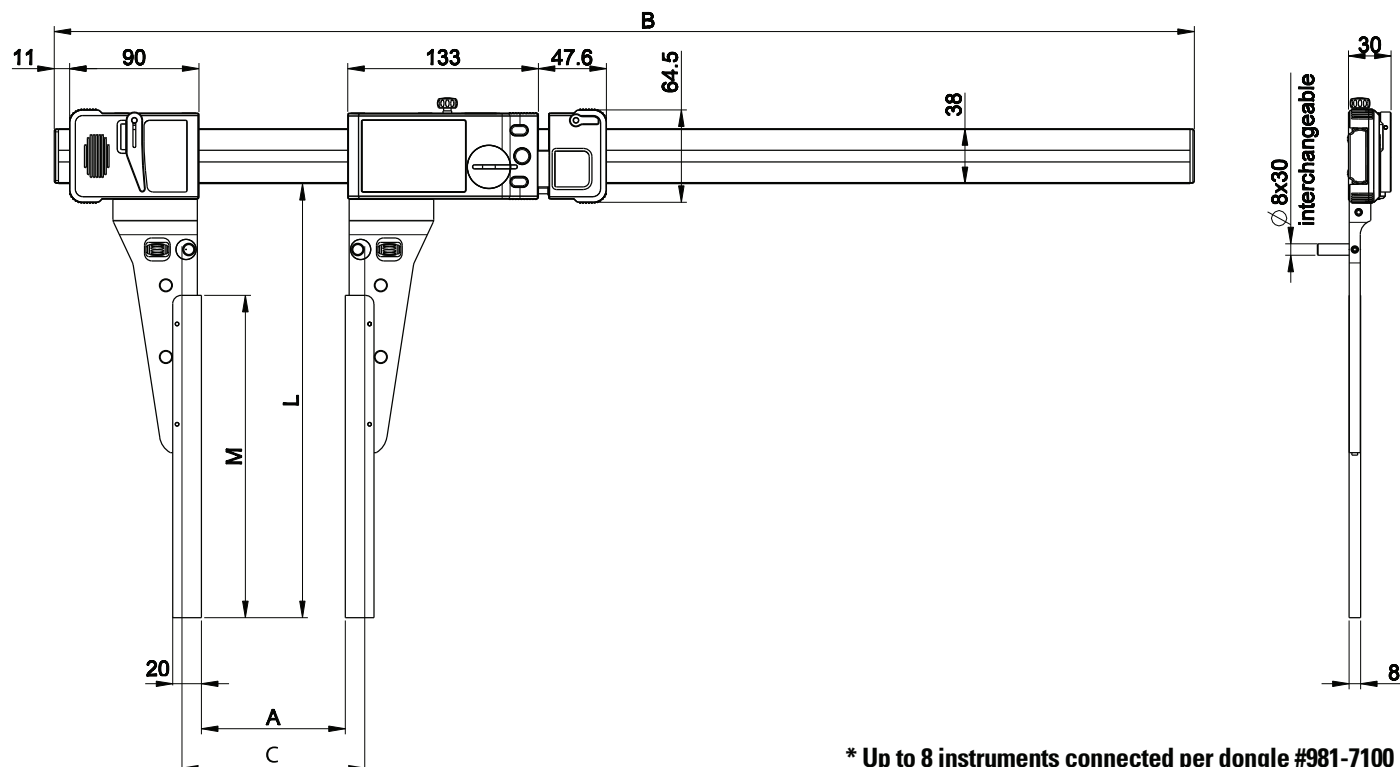
		811-1404	811-1406	811-1410	811-1415	811-1420	811-1425	811-1430
Model	mm	400	600	1000	1500	2000	2500	3000
Max.Error	µm	30	40	50	90	120	150	200
Repeatability	µm	20				30		
Resolution	mm	0.01						
A	mm	0-478	0-683	0-1093	0-1608	0-2123	0-2638	0-3153
C	mm	27-505	27-710	27-1110	27-1635	27-2150	27-2665	27-3180
B	mm	796	1001	1411	1926	2441	2956	3471
Measuring Force	N	7.5 - 11.5 (±20%)						
Output data		Bluetooth® wireless technology* / RS232 / USB						
IP67 Protection		●						
Preset max.		±9999.99 mm / ±399.9995 IN						
Weight	kg	1.5	1.6	1.9	2.3	2.6	2.9	3.3
Setting by PC		●						
2 references		●						
Min/Max function		●						
Tolerance limit indicators		●						

* Up to 8 instruments connected per dongle #981-7100

Ultra light caliper

UL4

SPECIAL EXECUTIONS | SPECIAL JAWS TYPE A



* Up to 8 instruments connected per dongle #981-7100
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

TECHNICAL SPECIFICATIONS

		811-2316-99	811-2317-99
Special jaws (pair)		Lenght L to specify with order (max 400 mm)	
L	mm	≤ 300	≤ 400
M	mm	L - 75	

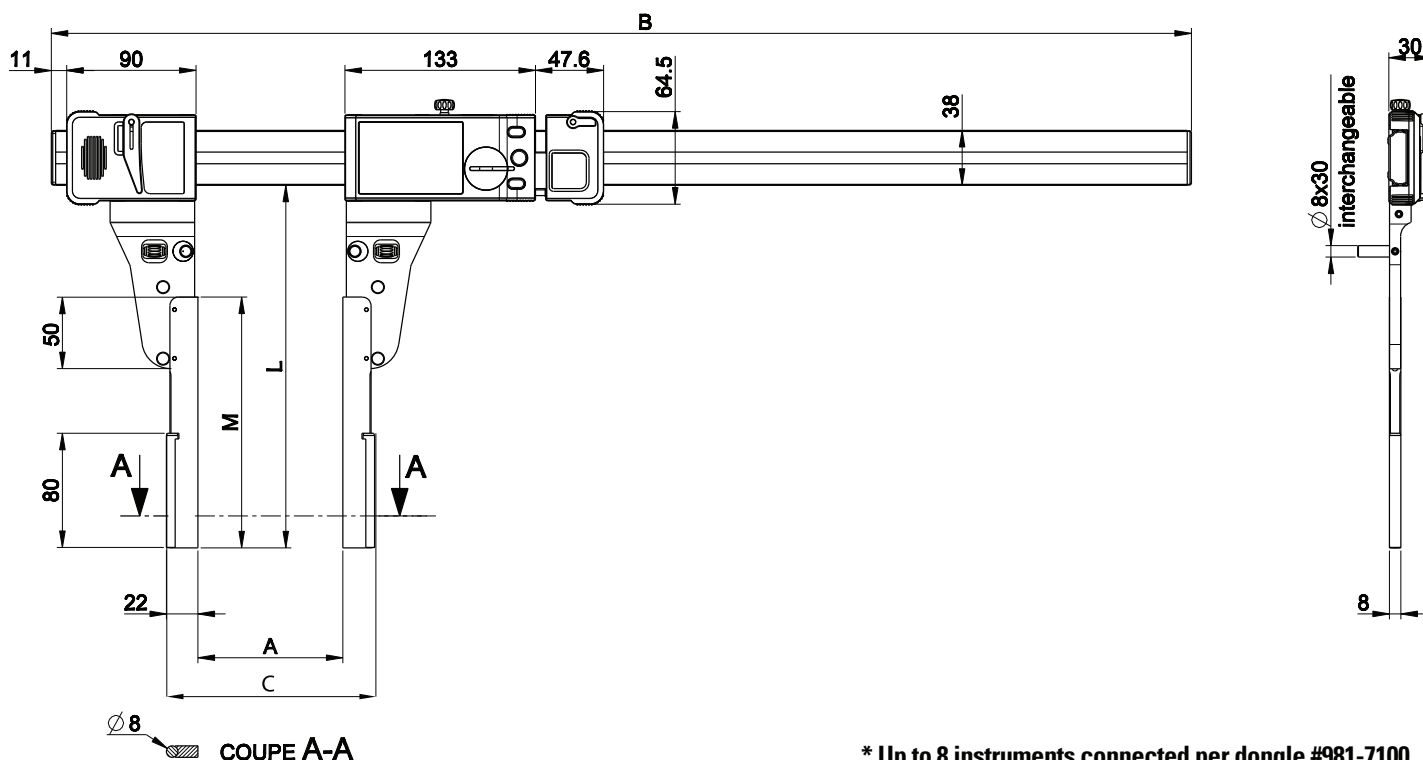
		UL 400	UL 600	UL 1000	UL 1500	UL 2000	UL 2500	UL 3000
UL specification		Max. error. [µm] / Repeatability [µm]						
With Jaws 811-2316-99		40/20	50/20	70/20	130/30	180/40	220/40	320/40
With Jaws 811-2317-99		70/40	80/40	120/40	200/50	300/60	400/70	500/80
Measuring range	mm	400	600	1000	1500	2000	2500	3000
A	mm	0-478	0-683	0-1093	0-1608	0-2123	0-2638	0-3153
C	mm	27-505	27-710	27-1110	27-1635	27-2150	27-2665	27-3180
B	mm	796	1001	1411	1926	2441	2956	3471
Resolution	mm	0.01						



Ultra light caliper

UL4

SPECIAL EXECUTIONS | SPECIAL JAWS TYPE C



* Up to 8 instruments connected per dongle #981-7100

TECHNICAL SPECIFICATIONS

811-2319-99		
Special jaws (pair)		Lenght L to specify with order (max 300 mm)
L max	mm	300
M	mm	L - 75

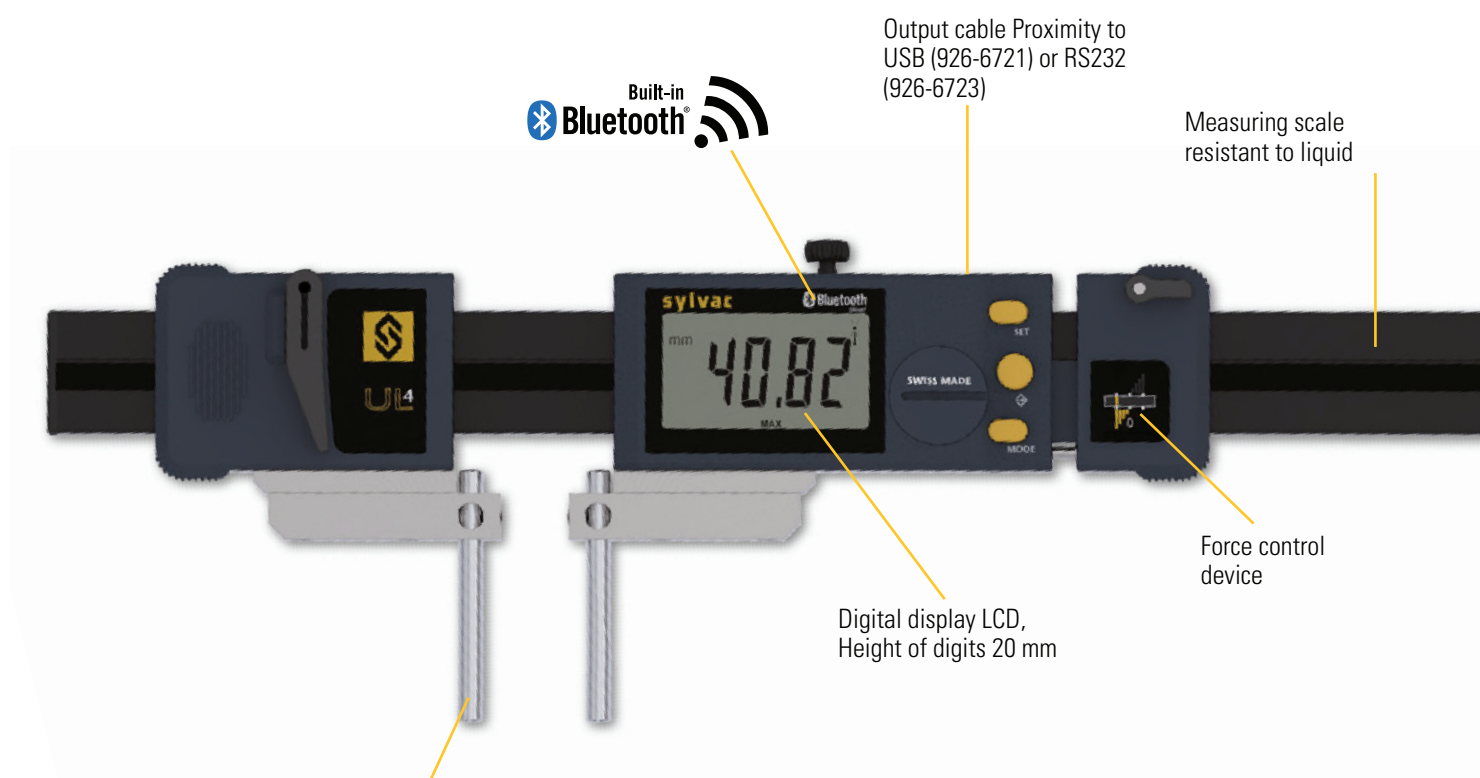
		UL 400	UL 600	UL 1000	UL 1500	UL 2000	UL 2500	UL 3000
UL specification		Max. error. [µm] / Repeatability [µm]						
With Jaws ≤ 200	mm	40/20	50/20	70/30	120/30	170/30	210/30	300/40
With Jaws ≤ 300	mm	50/30	60/30	90/30	150/30	200/40	300/40	400/50
Measuring range	mm	400	600	1000	1500	2000	2500	3000
A	mm	0-478	0-683	0-1093	0-1608	0-2123	0-2638	0-3153
C	mm	44-522	44-727	44-1137	44-1652	44-2167	44-2682	44-3197
B	mm	796	1001	1411	1926	2441	2956	3471
Resolution	mm	0.01						

Ultra light caliper

ULH4

DESCRIPTION

- Ultra-light, large universal instrument with integrated Bluetooth® system
- Frame made of special aluminium profile reinforced with 4 stainless steel guide rods
- New XXL display unit with digits 20 mm high
- Three buttons, including the central button with selectable favourite function
- Measuring force control device
- Supplied with interchangeable measuring keys with hard metal pins Ø 8 x 80 mm
- Numerous other measuring keys available as options
- Lever-lockable movable left jaw
- Additional data output Proximity
- Measuring range 400 to 3000 mm
- Protection class IP67



ISO 13385-1

 **SWISS
MADE**

Built-in
 **Bluetooth®**

PROXIMITY


 **WATER RESISTANT**

 **IP67**

Interchangeable keys

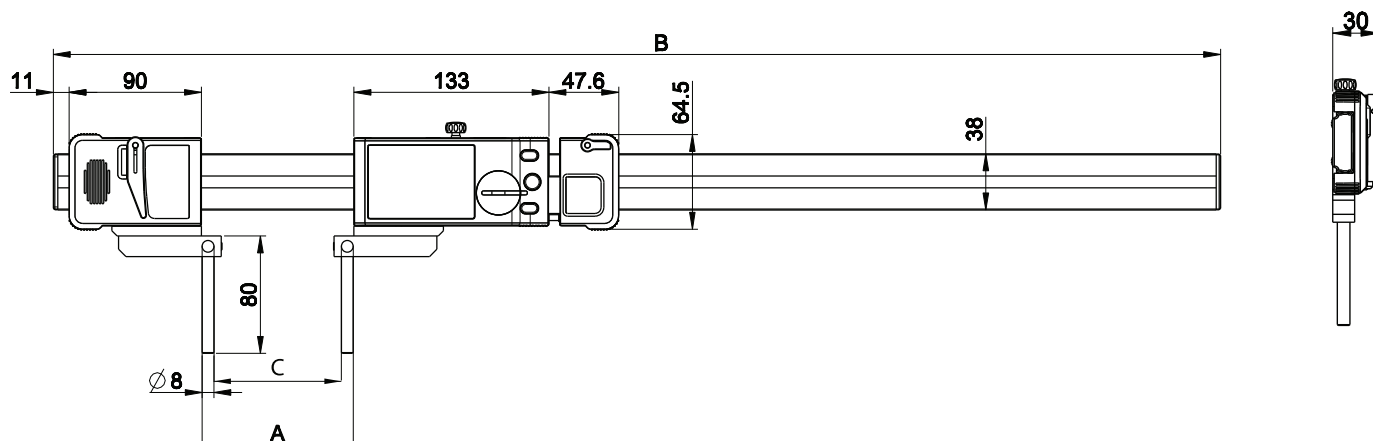




Ultra light caliper

UL H4

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

		811-8040	811-8060	811-8100	811-8150	811-8200	811-8250	811-8300
Model	mm	400	600	1000	1500	2000	2500	3000
Max.Error	µm	30	40	50	90	120	150	200
Repeatability	µm	20				30		
Resolution	mm	0.01						
A	mm	26-480	26-685	26-1095	26-1610	26-2125	26-2640	26-3155
C	mm	10-464	10-669	10-1079	10-1594	10-2109	10-2624	10-3139
B	mm	796	1001	1411	1926	2441	2956	3471
Measuring Force	N	7.5 - 11.5 (±20%)						
Output data		Bluetooth® wireless technology* / RS232 / USB						
IP67 Protection		●						
Preset max.		±9999.99 mm / ±399.9995 IN						
Weight	kg	1.1	1.2	1.5	1.9	2.2	2.5	2.9
Setting by PC		●						
2 references		●						
Min/Max function		●						
Tolerance limit indicators		●						

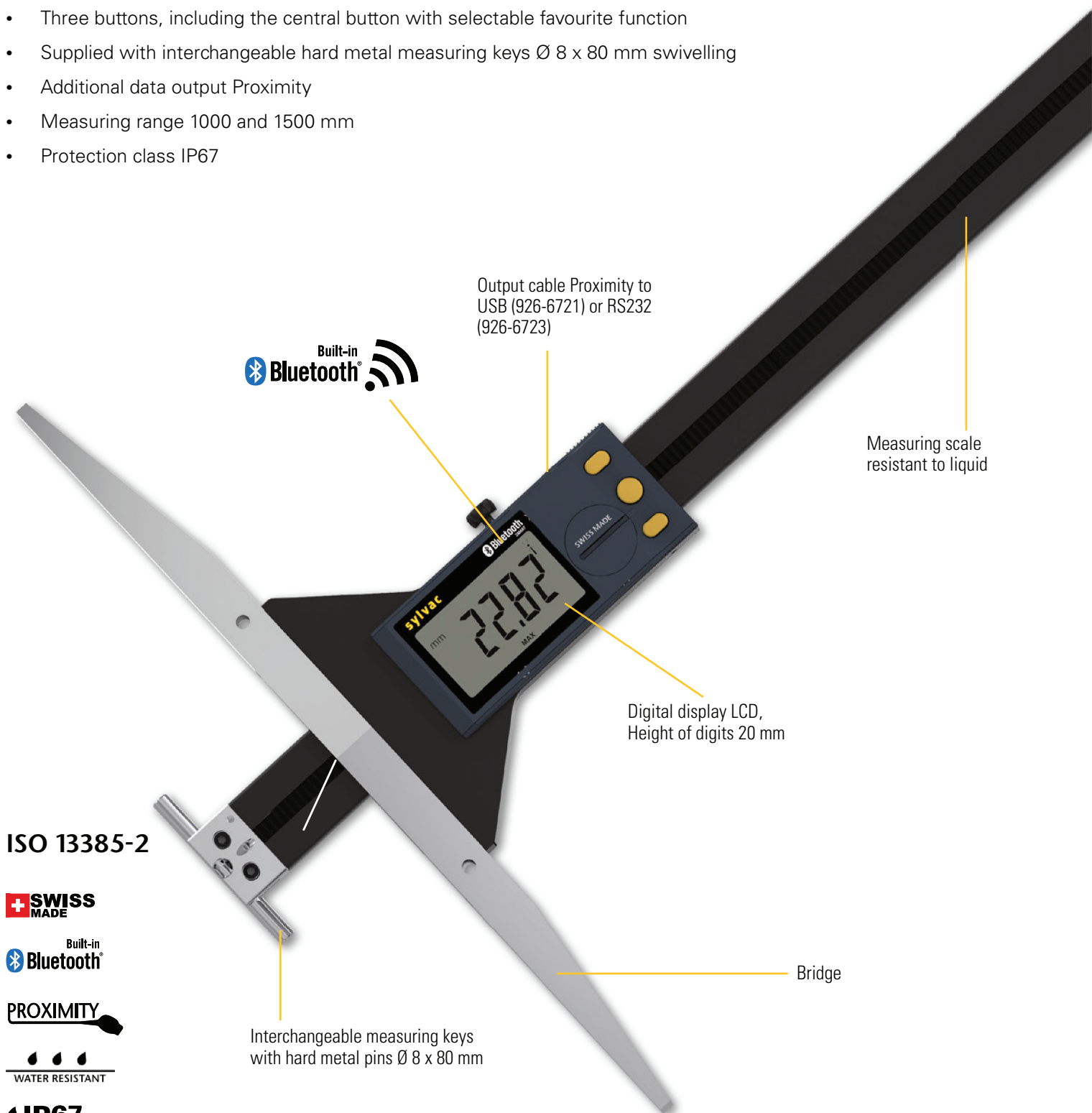
* Up to 8 instruments connected per dongle #981-7100

Ultra light depth gauge

UL V4

DESCRIPTION

- Large, ultra-lightweight depth gauge with integrated Bluetooth® system
- Frame made of special aluminium profile reinforced with 4 stainless steel guide rods
- Bridge width 400/600 mm with holes for the attachment of an additional wider bridge
- New XXL display unit with digits 20 mm high
- Three buttons, including the central button with selectable favourite function
- Supplied with interchangeable hard metal measuring keys Ø 8 x 80 mm swivelling
- Additional data output Proximity
- Measuring range 1000 and 1500 mm
- Protection class IP67

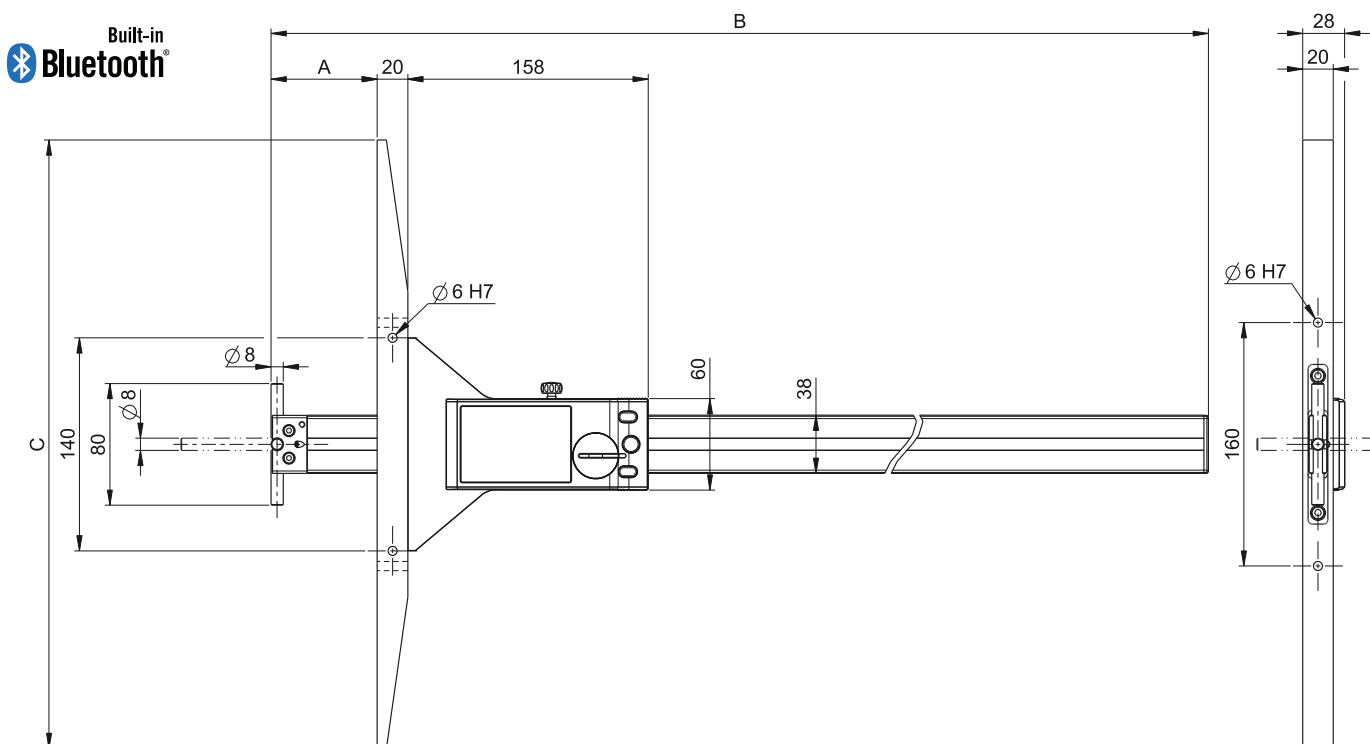




Ultra light depth gauge

UL V4

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

		811-6100	811-6150
Model	mm	1000	1500
Max.Error	µm	100	130
Repeatability	µm	20	
Resolution	mm	0.01	
A	mm	0 - 1030	0 - 1545
C	mm	400	600
B	mm	1242	1757
Output data		Bluetooth® wireless technology* / RS232 / USB	
IP67 Protection		●	
Preset max.		±9999.99 mm / ±399.9995 IN	
Weight	kg	2.2	3.16
Setting by PC		●	
2 references		●	
Min/Max function		●	
Tolerance limit indicators		●	

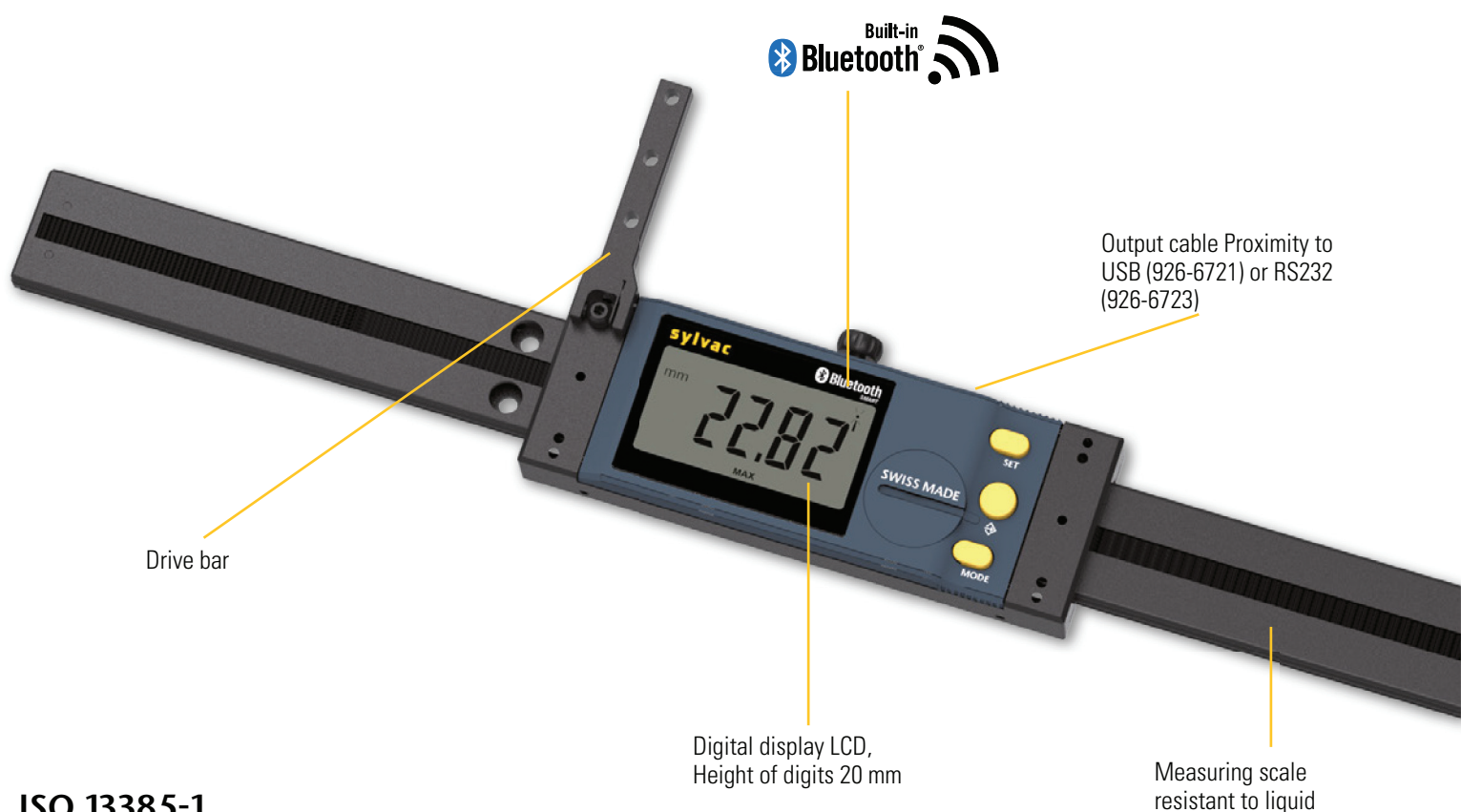
* Up to 8 instruments connected per dongle #981-7100

Ultra light digital scale

UL D4

DESCRIPTION

- Ultra-light, large linear ruler with integrated Bluetooth® system
- Frame made of special aluminium profile reinforced with 4 stainless steel guide rods with fixing holes
- New XXL display unit with digits 20 mm high
- Three buttons, including the central button with selectable favourite function
- Supplied with a drive bar that can be positioned at the top or bottom of the display.
- Additional data output Proximity
- Measuring range 1000 and 3000 mm
- On request, several rulers can be joined together to increase the measuring range.
- Protection class IP67



ISO 13385-1

SWISS
MADE

Built-in
Bluetooth

PROXIMITY

WATER RESISTANT

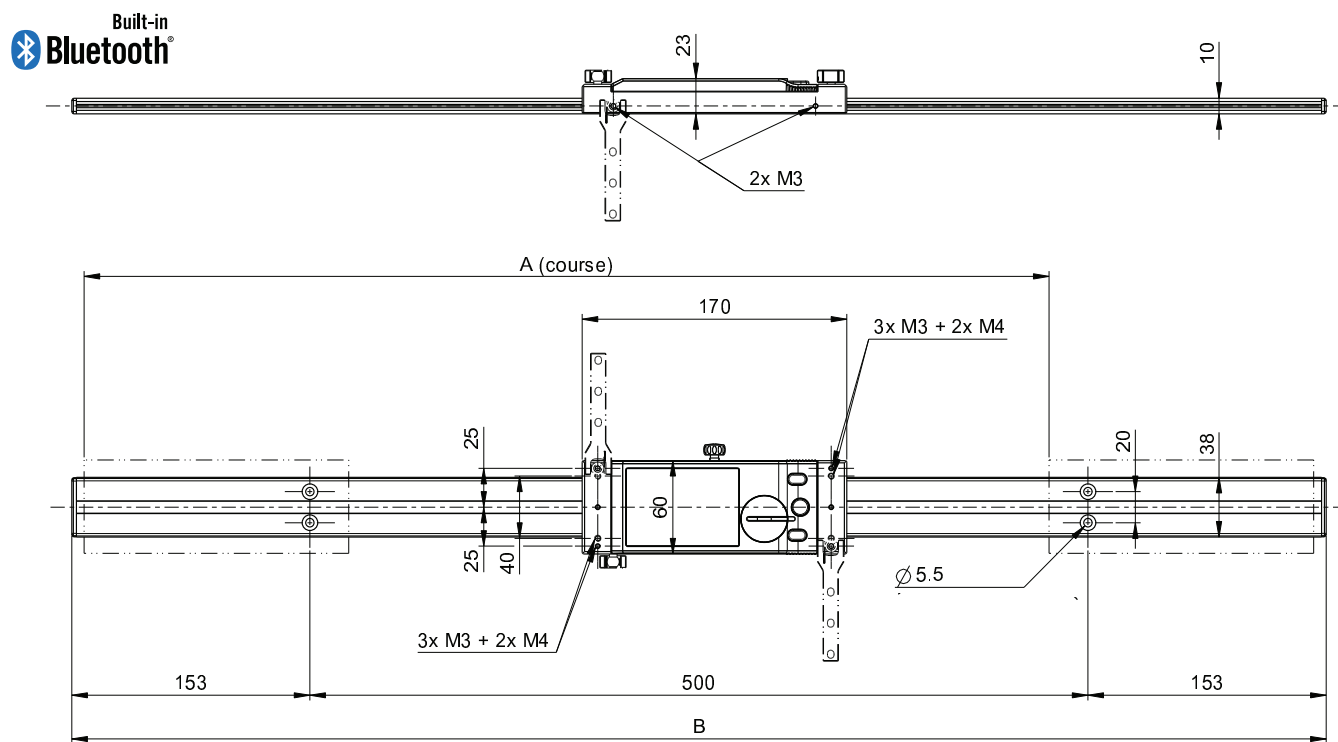
IP67



Ultra light digital scale

UL D4

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

		814-1510	814-1515	814-1520	814-1525	814-1530
Model	mm	1000	1500	2000	2500	3000
Max.Error	µm	60	90	120	150	200
Repeatability	µm	20				
Resolution	mm	0.01				
A	mm	0 - 1120	0 - 1620	0 - 2120	0 - 2620	0 - 3120
B	mm	1306	1806	2306	2806	3306
Number range of raws		3	4	5	6	7
Output data		Bluetooth® wireless technology* / RS232 / USB				
IP67 Protection		●				
Preset max.		±9999.99 mm / ±399.9995 IN				
Weight	kg	1.2	1.5	1.8	2.2	2.5
Setting by PC		●				
2 references		●				
Min/Max function		●				
Tolerance limit indicators		●				

* Up to 8 instruments connected per dongle #981-7100

Ultra light caliper

UL4

STANDARD DELIVERY



UL4 Standard

- Instrument according to technical specifications
- Lithium battery CR2477 included
- Calibration certificate for UL up to 3000mm
- Upper internal measurement anvil (811-2323 - 2pcs)
- Universal base 811-2301
- Instruction manual



UL4 Special Jaws Type A

- Instrument according to technical specifications
- Lithium battery CR2477 included
- Special long jaws Type A (811-2316-99 or 811-2317-99)
- Length of jaws to specify when order (max. 400mm)
- Instruction manual



UL4 Special Jaws Type C

- Instrument according to technical specifications
- Lithium battery CR2477 included
- Special long jaws Type C (811-2319-99)
- Length of jaws to specify when order (max. 300mm)
- Instruction manual



Ultra light caliper

STANDARD DELIVERY



ULH4

- Instrument according to technical specifications
- Lithium battery CR2477 included
- Calibration certificate for UL up to 3000mm
- Universal base 811-2301
- Anvil holder 811-2302
- Long cylindrical anvil Ø8x80mm (811-2324)
- Instruction manual

C



ULV4

- Instrument according to technical specifications
- Lithium battery CR2477 included
- Long cylindrical anvil Ø8x80mm (811-2324)
- Bridge 400mm or 600mm
- Instruction manual



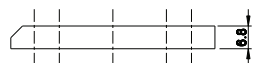
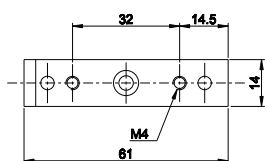
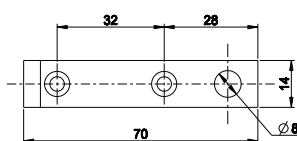
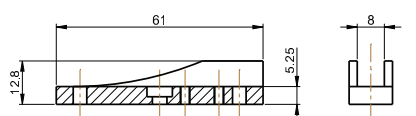
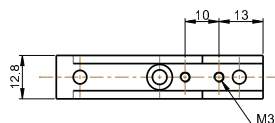
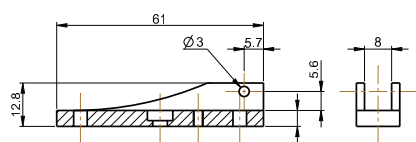
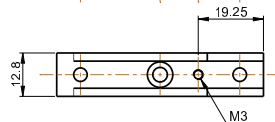
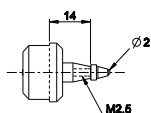
ULD4

- Instrument according to technical specifications
- Lithium battery CR2477 included
- Driving shaft
- Instruction manual

Ultra light caliper

ACCESSORIES

C



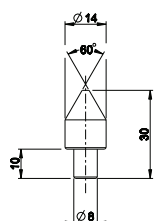
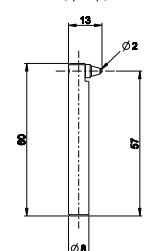
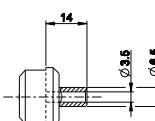
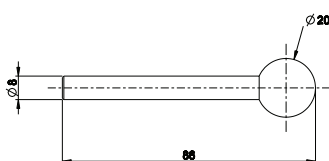
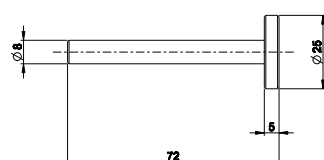
		UL4	UL H4	ULV4	UL D4
811-2301	Universal base (2 pieces)	●	●		
811-2302	Ø8 Anvil holder (2 pieces, to combine with 811-2301)	●	●		
811-2303	Accessories holder (2 different pieces)	●	●		
811-2305	Support with int. thread M 2.5 (2 pieces)	●			

See also cables chapter



Ultra light caliper

ACCESSORIES



		UL4	UL H4	ULV4	UL D4
811-2307	Inserts in hardened steel, cone 60° for bore clearance measurement > 10 mm, (2 pieces)	●	●		
811-2309	Holder for dial gauge contact points for internal groove measurement, (2 pieces)	●	●		
811-2304	Thread anvils holders (2 pieces)	●			
811-2310	Anvil Ø10mm (2 pieces)	●	●		
811-2311	Anvil Ø20mm (2 pieces)	●	●		
811-2312	Anvil Ø25x5mm (2 pieces)	●	●		
811-6306	Wooden box for UL4 400 and 600mm	●	●		
811-6310	Wooden box for UL4 1000mm	●	●		
811-6315	Wooden box for UL4 1500mm	●	●		

See also cables chapter

Ultra light caliper

ACCESSORIES

C



		UL4	UL H4	ULV4	UL D4
811-2321	Lower plate for internal anvil (2 pieces) (for Bowers Unical's «L anvils»)	●	●		
811-2322	Lower internal anvil (2 pieces)	●	●		
811-2323	Upper internal measurement anvil (2 pieces)* (to combine with 811.2303)	●	●		
811-2324	Long cylindrical anvil Ø8x80mm (2 pieces) (to combine with 811-2302 & 811-2301)	●	●		
811-2325	Cylindrical anvil Ø8x30mm (2 pieces)	●	●		

APPLICATIONS



Internal measure with UL4



External measure with UL4

