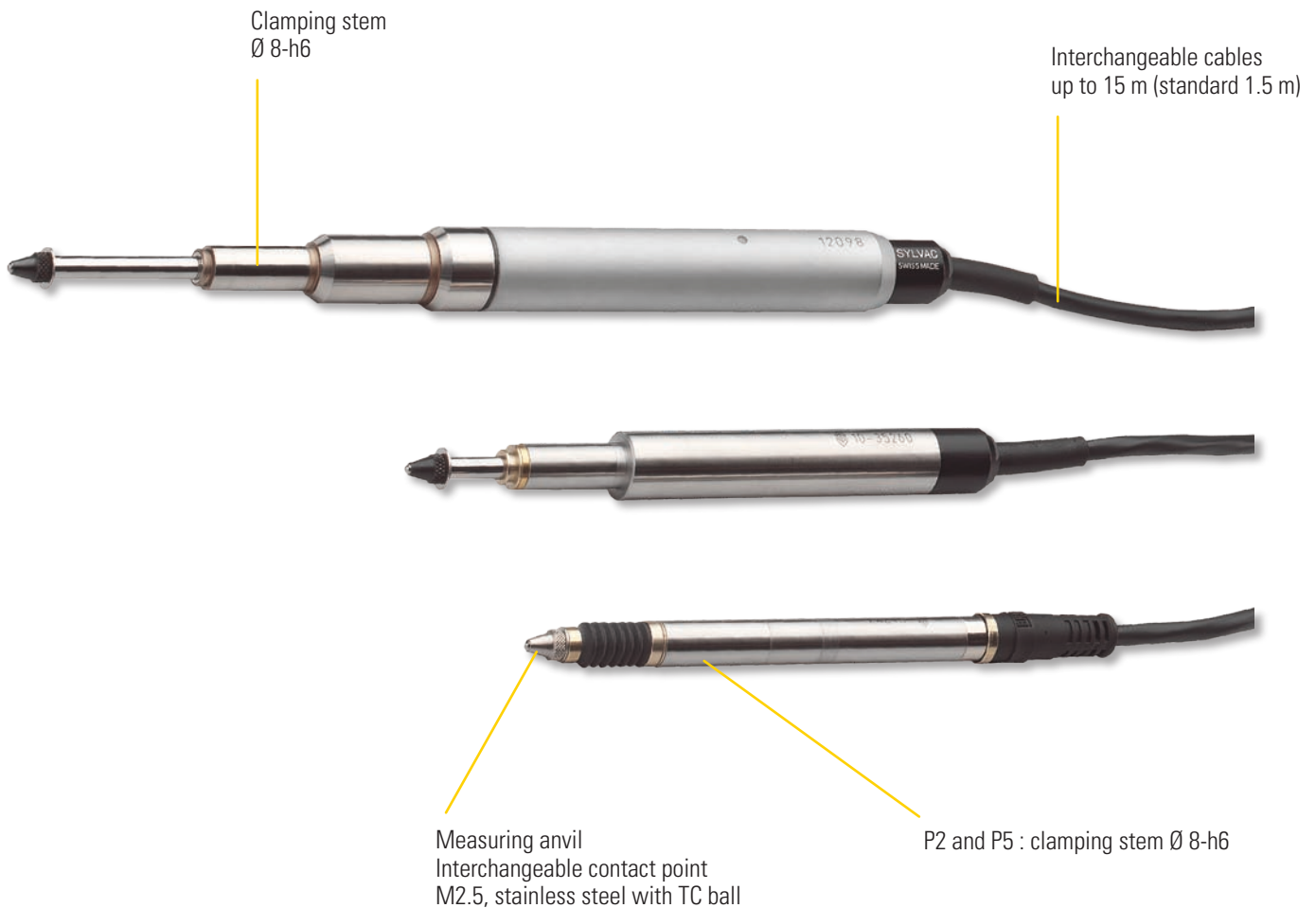


Measuring probes

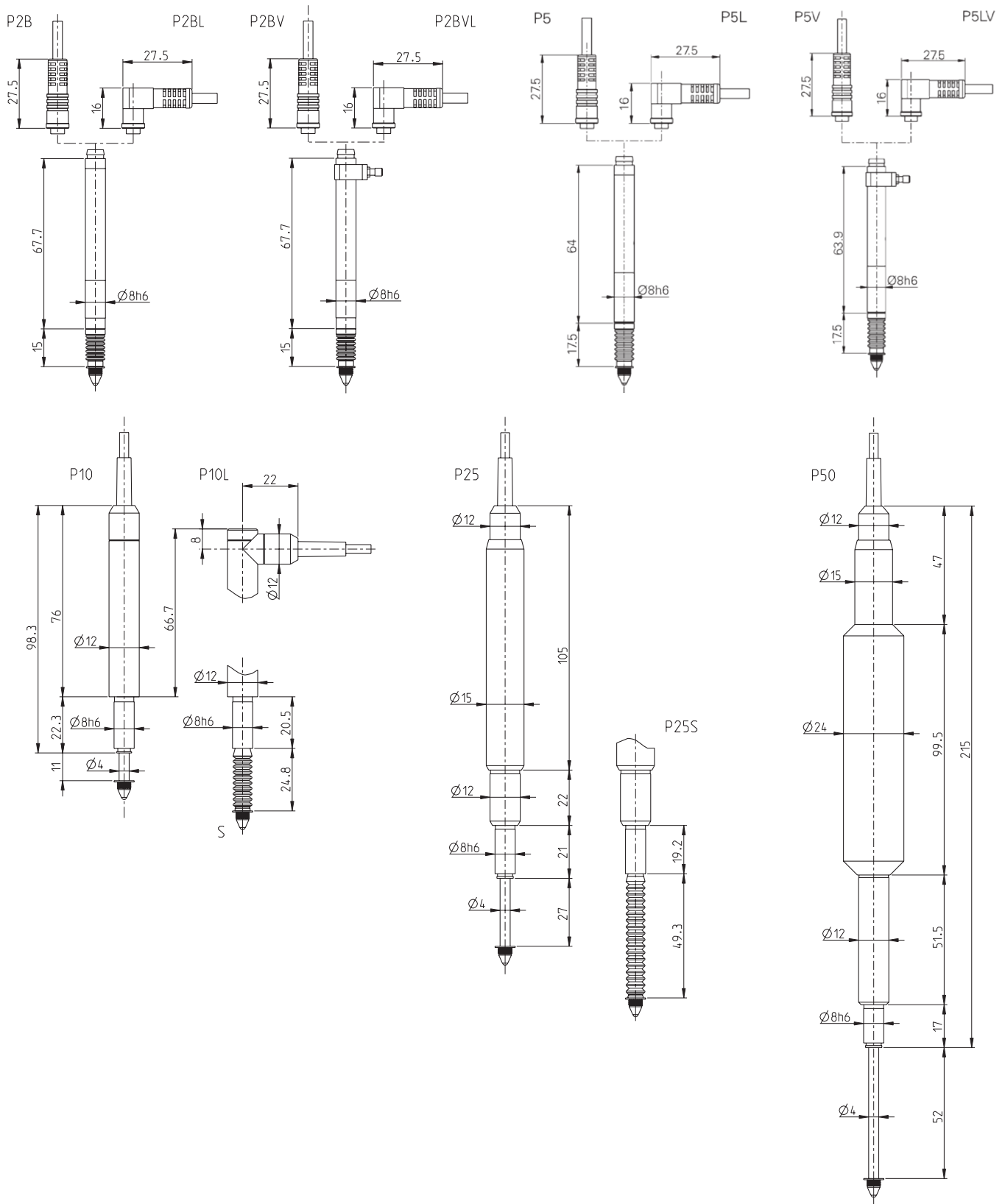
DESCRIPTION

- Capacitive absolute measuring probes, plunger type
- Resolution 0.0001 mm
- Measuring range from 2 to 50 mm
- Plain bearing or ball bearing, integrated vacuum lifter on P2 and P5
- Compatible with the D50S, D80S, D90S, D100S and D200S units
- Excellent linearity
- Interchangeable cables



Measuring probes

DIMENSIONAL DRAWINGS



Measuring probes

LISTING OF ALL MODELS

	900.0992 P2BL	900.0994 P2B	900.0995 P2BV	900.0997 P2BVL	900.1001 P5	900.1003 P5V	900.1006 P5L	900.1008 P5VL	900.1010 P10	900.1012 P10S	900.1014 P10L	900.1016 P10LS	900.1025 P25	900.1027 P25S	900.1050 P50
RANGE															
2 mm	•	•	•	•											
5 mm					•	•	•	•							
10 mm									•	•	•	•			
25 mm													•	•	
50 mm															•
EXECUTION															
Plain bearing					•	•	•	•	•	•	•	•	•	•	•
B- Ball bearing	•	•	•	•											
V- Vacuum lifter			•	•		•		•							
L- 90 degrees cable	•			•			•	•			•	•			
S- with rubber boot	•	•	•	•	•	•	•	•		•		•		•	
MECANIC															
Diameter 8 mm h6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Diameter 12 mm													•	•	•
Measuring anvil M2.5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
LIFTING															
Integrated			•	•		•		•							
Separate accessories	•	•			•		•		•	•	•	•	•	•	
PROTECTION IP															
Protection rating IP (IEC 60529)	64	64	64	64	64	64	64	64	40	50	40	50	40	50	40

Measuring probes

TECHNICAL SPECIFICATIONS

		P2	P5	P10	P25	P50
Pre-travel	mm	0.25	0.7	0.5	0.8	1
Max. Error ¹⁾	µm	0.8	1	1	1.2	2.5
Repeatability	µm	0.2	0.2	0.2	0.2	0.4
Moving mass	g	3.4	3.7	4.1	9.6	15.3

¹⁾ with master unit

MEASURING FORCE

		P2B	P5	P10	P10S	P25	P25S	P50
Standard	N	0.60-0.75	0.60-1.20	0.60-0.80	0.70-1.25	0.60-1.00	0.70-1.40	0.50-1.10
Minimum	N	---	---	< 0.10	---	< 0.15	---	---
Low	N	---	0.20-0.25	0.20-0.25	---	0.20-0.30	---	---
High	N	---	1.00-1.80	0.70-1.50	---	0.70-1.60	---	---
Lateral max	N	0.70	0.70	0.60	---	0.30	---	0.25

The values have to be understood $\pm 20\%$, measuring probe in vertical position, outgoing spindle.

BASIC INSTRUMENT

- Probe according to technical specifications
- Calibration certificate
- Cable 1.5 m
- Stainless steel contact point with tungsten carbide ball Ø 2 mm (905.2204)

Measuring probes

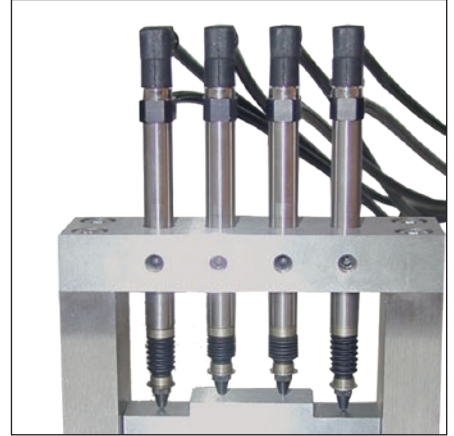
APPLICATIONS



P25 probe connected to a D80S unit measuring the height of a part



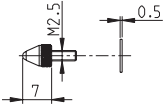
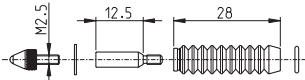
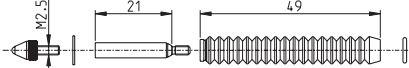
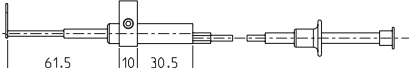
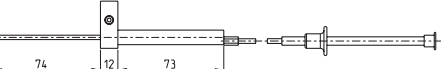
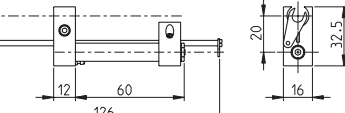
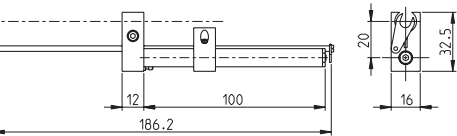
P5 probes connected to a D50S unit measuring the external diameter of a shaft



Combined probes for the measurement of several heights

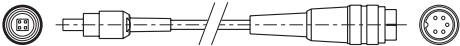
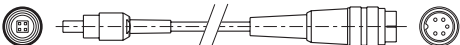
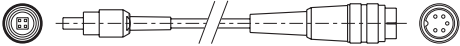
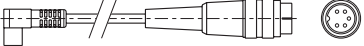
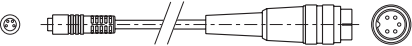
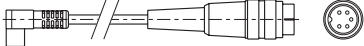
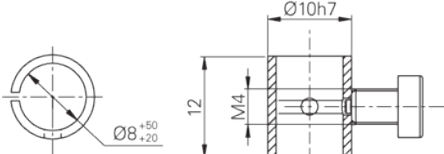
Measuring probes

ACCESSORIES

		P2	P5	P10	P25	P50
	905.2204	Stainless steel contact point M2.5 with TC ball probe (other contact points, see page 50)				
	901.2003					
	901.2004					
	901.2005					
	901.2006					
	901.2010					
	901.2011					
	901.2012	Hose Ø 4 mm / 2 mm, Length to be specified				
	901.2013	Hose Ø 6 mm / 4 mm, Length to be specified				
	901.2014	Double hose diameter 2 x 4 mm / 2 mm, Length to be specified				

Measuring probes

ACCESSORIES

			P2	P5	P10	P25	P50
	901.5001	Extension 3 m	•	•	•	•	•
	901.5002	Cable 1.5 m			•		
	901.5012	Cable 1.5 m				•	
	901.5022	Cable 1.5 m					•
	901.5032	Cable 1.5 m bent			•		
	901.5042	Cable 1.5 m	•	•			
	901.5052	Cable 1.5 m bent	•	•			
	905.2231	Adapting socket + screw	•	•	•	•	•

Digital display

TABLE OF CORRESPONDENCES

		D50S	D80S	D100S	D200S
Direct input	Probes	2	1	1	8
	RS instruments			1	
	External contact	1	1	2	1
Additional input	Probes	---	7 ¹⁾	63 ¹⁾	24 ³⁾
	RS instruments	---	---	47 ²⁾	---
Output	RS 232	•	•	•	•
	USB				•
	Opto-coupled output		•	•	•
	Analogic		•	•	
	Centronics			•	
Functions	Direct zero setting	•	•	•	•
	Selection of resolution	•	•	•	•
	Selection of measuring direction	•	•	•	•
	PRESET	•	•	•	•
	Tolerance indicators		•	•	•
	Classification (max 8 classes)			•	
	Min, Max, Delta		•	•	•
	A ± B	•		•	•
	A ± B ± C			•	•
	Scanning			•	•
	Histogram			•	
	Statistics			•	
	Memorization			•	•
	Accumulator			•	
	Simultaneous display of the channels				•
	Dynamic measurement			4)	•

¹⁾ with unit (s) additional (s) D108

²⁾ with unit (s) additional (s) D104

³⁾ with 3 units D200S

⁴⁾ on 1 channel only

Digital display

S_View D50S

DESCRIPTION

- Digital display with 2 probe inputs
- Data output RS232C
- Power supply by external unit
- Light and compact
- Easy of use
- Correction of linearity for both channels (D50S PRO)

Resolution up to 0.0001 mm

Great clear and luminous display

Combination of channels A+B; A-B



Direct functions

Heightening feet



D50S PRO

Correction of linearity.
Higher precision

Digital display

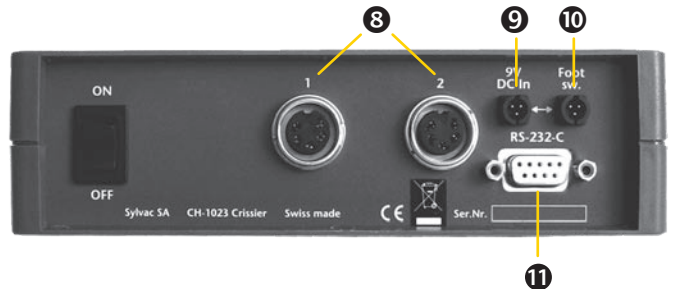
S_View D50S

DISPLAY/SOFTWARE

- ❶ Conversion mm/inch
- ❷ Selection of resolution
- ❸ Selection of measuring direction
- ❹ REL and ABS measurement
- ❺ PRESET function
- ❻ Data sending
- ❼ Selection of measuring mode: channel 1 ; channel 2 ; channel 1-2 ; channel 1+2



- ❽ Probe inputs
- ❾ Power supply connection
- ❿ External contact connection
- ⓫ RS232 input/output



TECHNICAL SPECIFICATIONS

		804.1050	804.1060
Type		D50S	D50S PRO
Max. Error	μm	P2 : 1.5 / P5 : 1.6 / P10 : 1.6 / P25 : 1.9 / P50 : 3.9	P2 : 0.5 / P5 : 0.6 / P10 : 0.6 / P25 : 0.8 / P50 : 1.5
Repeatability	μm	P2 : 0.2 / P5 : 0.2 / P10 : 0.2 / P25 : 0.2 / P50 : 0.4	P2 : 0.2 / P5 : 0.2 / P10 : 0.2 / P25 : 0.2 / P50 : 0.4
Sizes	mm	180 x 75 x 50	180 x 75 x 50
Weight	kg	0.3	0.3
Case		Terblend Plastic	Terblend Plastic
Protection according to IEC 60529		IP40	IP40
S_Connect		RS232 ¹⁾	RS232 ¹⁾
Programmable by PC		•	•

¹⁾ see cables chapter

BASIC INSTRUMENT

- Unit according to technical specifications
- Heightening feet
- Charging unit according to country (904.4010 / 11 / 12 / 13)
- Manual

APPLICATIONS



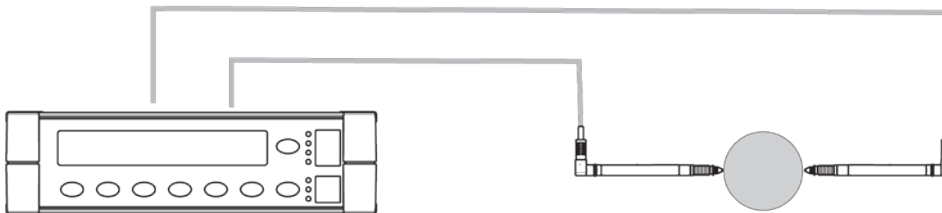
Measuring a shaft



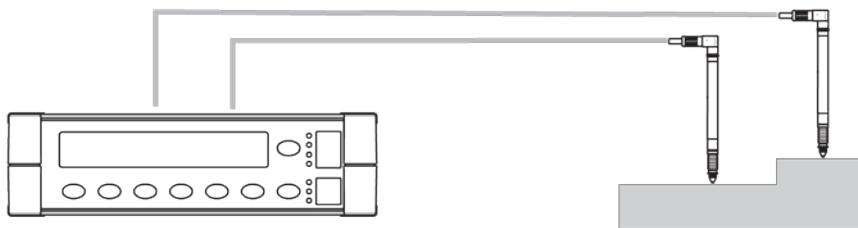
Simple measurement with one probe

COMBINATIONS OF PROBES

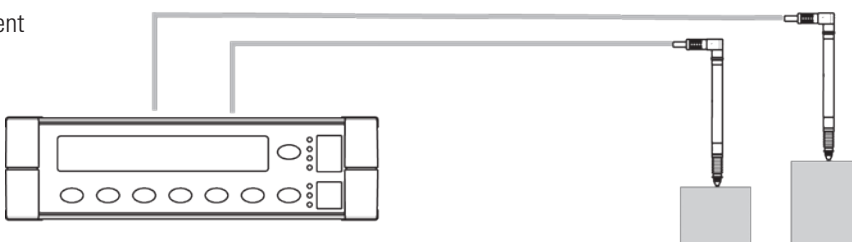
Diameter = 1+2



Variation = 1-2



Individual measurement



Digital display

S_View D50S

POSSIBILITIES OF CONNECTION

