

The Sylvac linear probes are based on the capacitive principle characterized by a high degree of accuracy also on long measuring ranges up to 50mm. The probes are used as measuring elements to be placed on tables, supports, bench tables, special mechanical devices or multi-gauging fixtures.

The probe signal is processed in a display unit. Sylvac offers several of them. Benefiting from the high degree of accuracy of its probes and with the aim to measure small machined parts typically used in watches, Sylvac developed a whole series of benches and tables. These supports are conceived for the control of internal, external, heights, grooves etc, starting from a few tenths to 70mm.

Absolute capacitive measuring system
Digital display units RS232 and USB
Operational temperature 0 to +50°C





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 P5
- Compatible with all Sylvac digital units
- Excellent linearity
- Interchangeable cables on most types

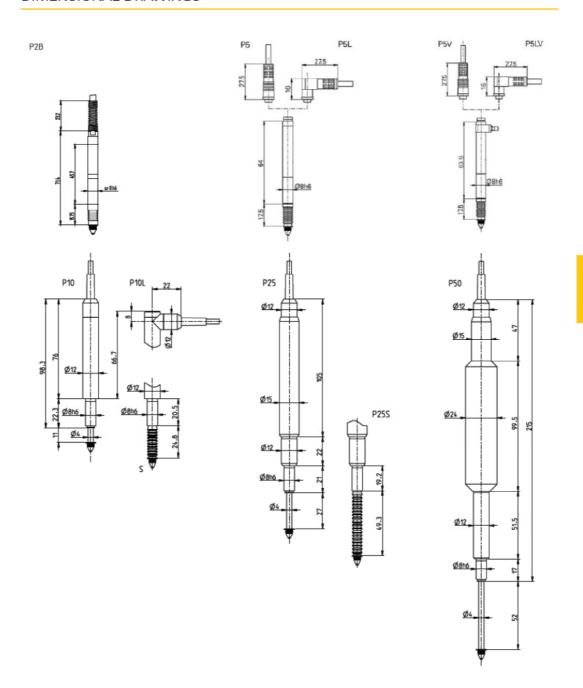








DIMENSIONAL DRAWINGS





LISTING OF ALL MODELS

RANGE	800.0994 P2B	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
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	•	•	•	•	•		•		•		•	
MECHANIC												
Diameter 8 mm h6	•	•	•	•	•	•	•	•	•	•	•	•
Diameter 12 mm										•	•	•
Measuring anvil M2.5	•	•	•	•	•	•	•	•	•	•	•	•
LIFTING												
Integrated			•		•							
Separate accessories	•	•		•		•	•	•	•	30 3 0	**	
PROTECTION IP												
Protection rating IP (IEC 60529)	64	64	64	64	64	40	50	40	50	40	50	40
Protection rating in (IEC 60529)	UH	04	UH	UH	04	40	30	40	30	40	30	40



TECHNICAL SPECIFICATIONS

	P2B	P5	P10	P25	P50
Pre-travel mm	0.25	0.7	0.5	8.0	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	0.65-1.4	0.70 - 1.7
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

Tolerance \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)



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



ACCESSORIES

