

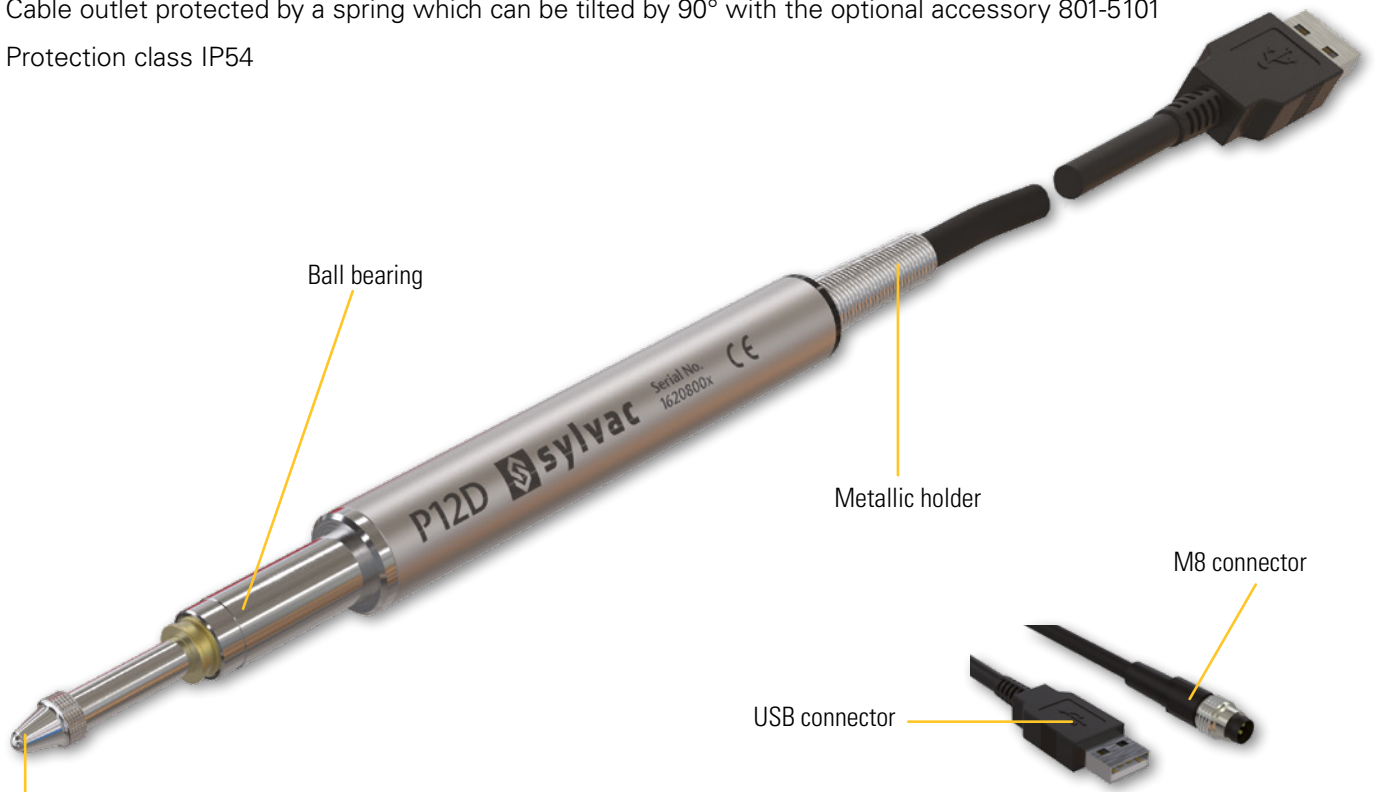


Absolute digital measuring probes

P12D

DESCRIPTION

- High-precision measuring probes with patented measuring system combining inductive and capacitive technologies
- Absolute system with integrated electronic error correction (no more pairing with the unit or computer) guaranteeing high accuracy over the entire measuring range
- Extremely robust ball bearing guide guarantees a minimum of 100 million cycles (30 millions with radial load)
- Stainless steel body Ø 12 mm, fixing diameter 8 h6
- Measuring range 12.7 mm
- Available in 3 versions: Standard, Work and Pro
- Measuring force selectable: low or very low for vertical use only
- Output signal in direct digital format without the need for a converter
- Reading speed up to 100 values per second depending on configuration
- Straight cable length 2m with either USB or M8 connector
- Cable outlet protected by a spring which can be tilted by 90° with the optional accessory 801-5101
- Protection class IP54



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SWISS MADE
IP54

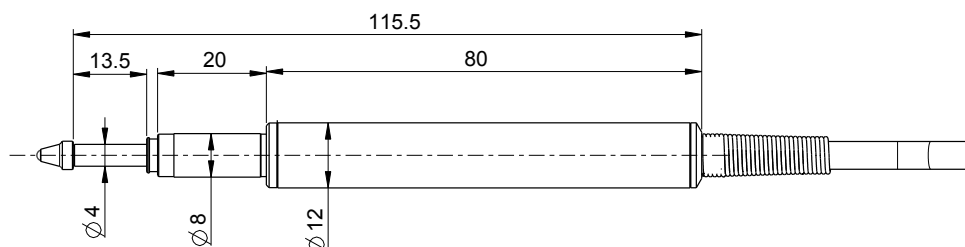




Absolute digital measuring probes

P12D

DIMENSIONAL DRAWINGS



TECHNICAL SPECIFICATIONS

PRO		801-1012	801-1018	801-1212	801-1218
Resolution type		High resolution			
Type		P12D HR USB	P12D HR USB CF ²⁾	P12D HR M8	P12D HR M8 CF ²⁾
Force ¹⁾	N	0.2 - 0.3	0.08	0.2 - 0.3	0.08
Measuring range	mm	12.7			
Resolution	µm	0.01			
Max. Error	µm	0.6			
Repeatability	µm	0.08			
Nb measures/s		up to 100/s, according to configuration ⁵⁾			
Output data		USB		M8	
Cable output		Straight			

STANDARD		801-2012	801-2017	801-2212
Resolution type		Standard		
Type		P12D USB	P12D USB LF ³⁾	P12D M8
Force ¹⁾	N	0.4 - 0.8	0.2 - 0.3	0.4 - 0.8
Measuring range	mm	12.7		
Resolution	µm	0.1		
Max. Error	µm	1		
Repeatability	µm	0.2		
Nb measures/s		up to 100/s, according to configuration ⁵⁾		
Output data		USB		M8
Cable output		Straight		

¹⁾ ± 20%, vertical position

²⁾ CF = constant force : usable only vertically, rod pointing downwards (without spring)

³⁾ LF = low force

⁴⁾ depends on resolution and software

⁵⁾ depends on resolution and number of probes per bus



P12D - special version

P12D WORK

TECHNICAL SPECIFICATIONS

WORK		801-0212	801-0012
Resolution type		Standard	
Type		P12D WORK M8	P12D WORK USB
Force ¹⁾	N	0.4 - 0.8	
Measuring range	mm	12.7	
Resolution	µm	0.1	
Max. Error	µm	1.8	
Repeatability	µm	0.2	
Nb measures/s		up to 100/s, according to configuration ¹⁾	
Output data		M8	USB
Cable output		Straight	

¹⁾ depends on resolution and number of probes per bus

P12D - special version

P12D OPEN

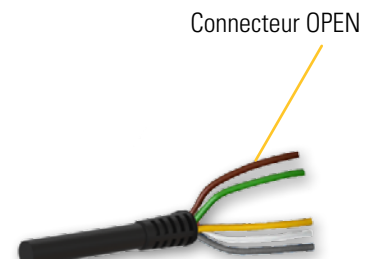
DESCRIPTION

- Same specifications as P12D Work. In addition to this:
- Special execution with cable length 2 m. type «open connector» (4 coloured wires according to DIN 47100) for integration in machines or lines and communication with a PLC
- Output signal in direct digital format without the need for a converter.
- ASCII or ORBIT compatible communication protocol
- Resolution up to 0.0001 mm (0.1 µm), max. error 1.8 µm
- Measuring force 0.4 - 0.8 N

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SWISS MADE

IP54





Absolute digital measuring probes

P12D

TECHNICAL SPECIFICATIONS

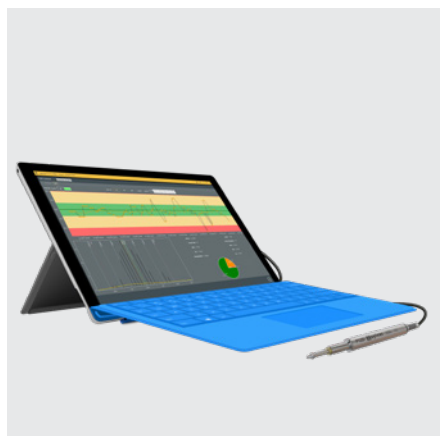
OPEN		801-0412
Resolution type		Standard
Type		P12D OPEN
Force ¹⁾	N	0.4 - 0.8
Measuring range	mm	12.7
Resolution	µm	0.1
Max. Error	µm	1.8
Repeatability	µm	0.2
Nb measures/s		up to 100/s, according to configuration ¹⁾
Output data		OPEN
Cable output		Straight

¹⁾ depends on resolution and number of probes per bus

STANDARD DELIVERY

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

APPLICATIONS



Probe P12D USB connected to a PC, measures displayed by Sylcom.



Probe P12D USB connected to a D300S (maximum resolution 0.1µm)



Probes P12D M8 connected to a D62S.