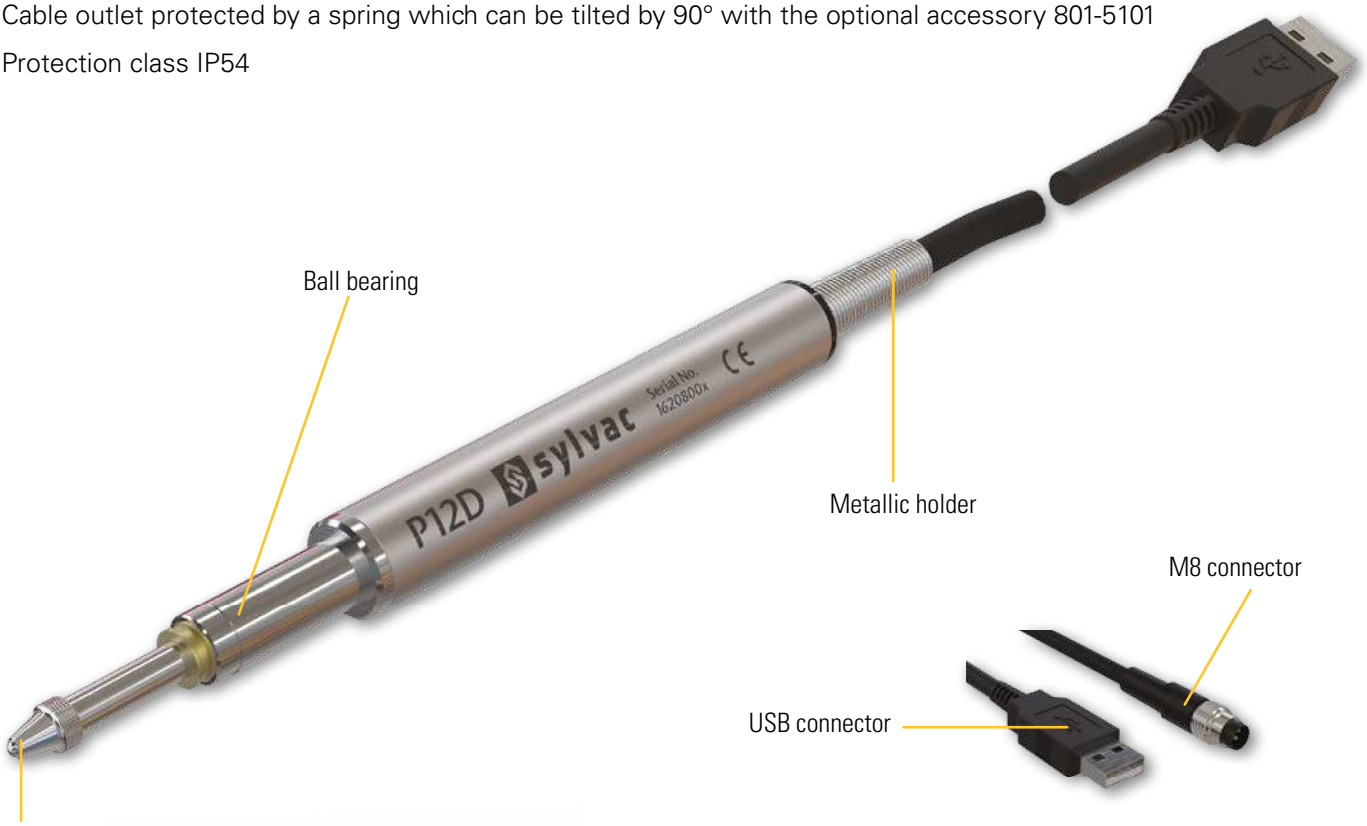
Absolute digital measuring probes P12D

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



Measuring anvil
Interchangeable contact point M2.5, stainless steel with TC ball

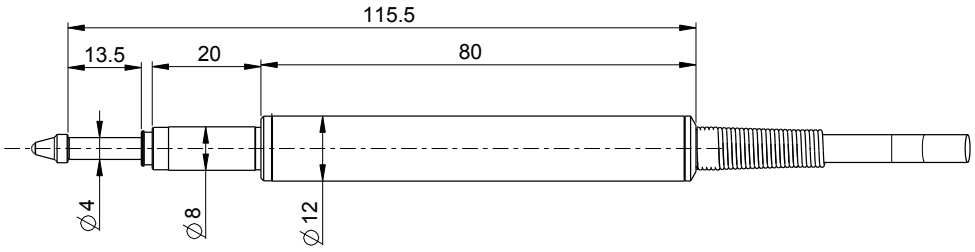
SWISS MADE

IP54

Direct output on PC displayed on Sylcom (software and PC not included)

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

H

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

H

Connecteur OPEN

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.