

### **Electronic measuring probes**

# The best **Swiss quality** and **performances** measuring electronic probes

PRETEC is leading and well established Swiss manufacturer supplying standard or customized products and systems in the dimensional metrology for more than forty years.

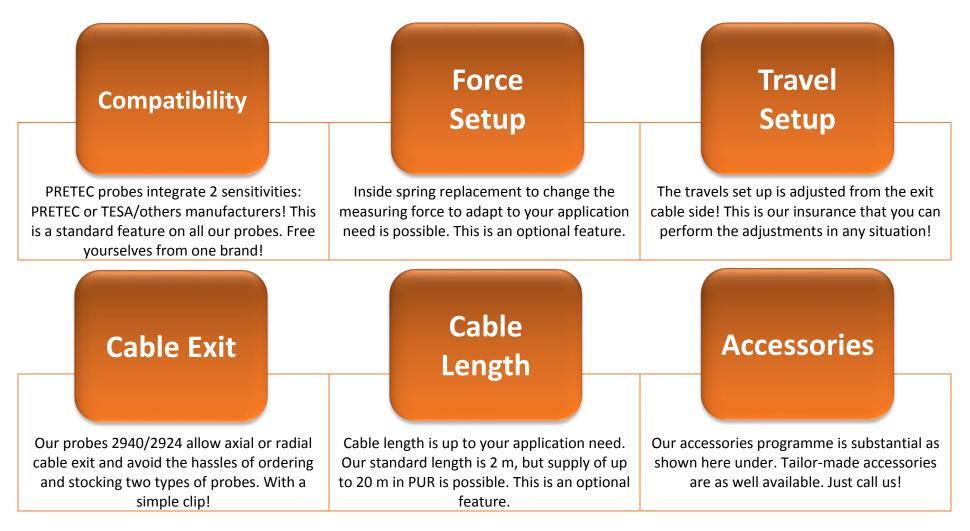
This brochure focuses mainly on the electronic measuring probes that can be characterized as being Swiss technology, quality and high precision. PRETEC products offer a unique compatibility and modularity concept with other probes manufacturers. PRETEC large product range will for sure covers your application needs.

A large choice of accessories and options are as well available whether as standard or customizable.

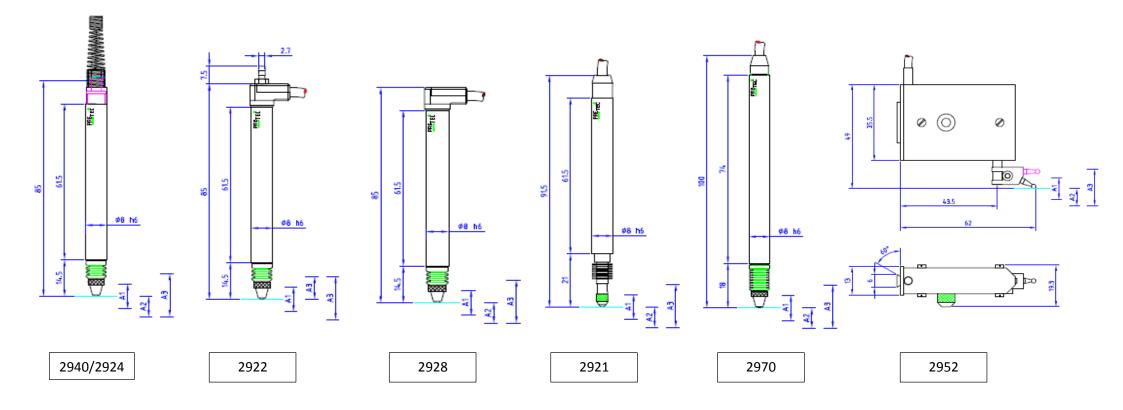
#### **Our electronic probes features**

- Compatible with other manufacturers (TESA, etc.)
- Φ 8h6 mm probe stainless steel carbide-chromed housing
- Axial or radial cable exit
- Measuring bolt guided on ball bearing (except 2952)
- Special roller bearing locks the probe head against torsion
- Mechanical or vacuum retraction
- Pre/Post-travel setup from the back of the probe
- Wide range of accessories available

# PRETEC products **benefits**



### Product **range**



# Product Specifications

#### **Technical specifications**

Ordrer Number	Measuring travel A1	Working Travel A2	Overall travel A3	Repeatability typical	Linearity	Hysteresis Error	Measuring force on zero point	Protecion	Cable	Application
2921	±0.8 mm	0.8 – 1.1 mm Fix	3 mm	< 0.02 μm	±0.3 %	< 0.02 μm	0.61.0 N	IP66	2 m - Axial	Splash waterproof
2922	±1 mm	1.1 – 1.2 mm variable	3 mm	< 0.02 μm	±0.3 %	< 0.02 μm	0.450.75 N	IP64	2 m – Radial	Vacuum lift
2924	±1 mm	1.1 – 1.3 mm Fix	3 mm	< 0.02 μm	±0.3 %	< 0.02 μm	0.450.75 N	IP65	2 m – Axial	Splash waterproof
2928	±1 mm	1.1 – 1.3 mm variable	3 mm	< 0.02 μm	±0.3 %	< 0.02 μm	0.450.75 N	IP64	2 m – Radial	Universal
2929	±2 mm	1.1 – 1.3 mm variable	4.5 mm	< 0.02 μm	±0.3 %	< 0.02 μm	0.450.75 N	IP64	2 m – Radial and axial	Universal
2940	±2 mm	1.1 – 1.3 mm variable	4.2 mm	< 0.02 μm	±0.3 %	< 0.02 μm	0.450.75 N	IP64	2 m – Axia and radiall	Universal
2970	±3 mm	3.5 mm Fix	7 mm	< 0.5 μm	±2 %	< 0.5 μm	0.81.2 N	IP64	2 m – Axial	Large mesuring range
2952	±1 mm	1.05 – 1.1 mm Fix	2 mm	0.01 -0.05 μm	±0.3 %	< 0.02 μm	00.25 N	IP64	2m - Axial	Low measuring force

# Product Specifications

#### **Electrical Data sheet**

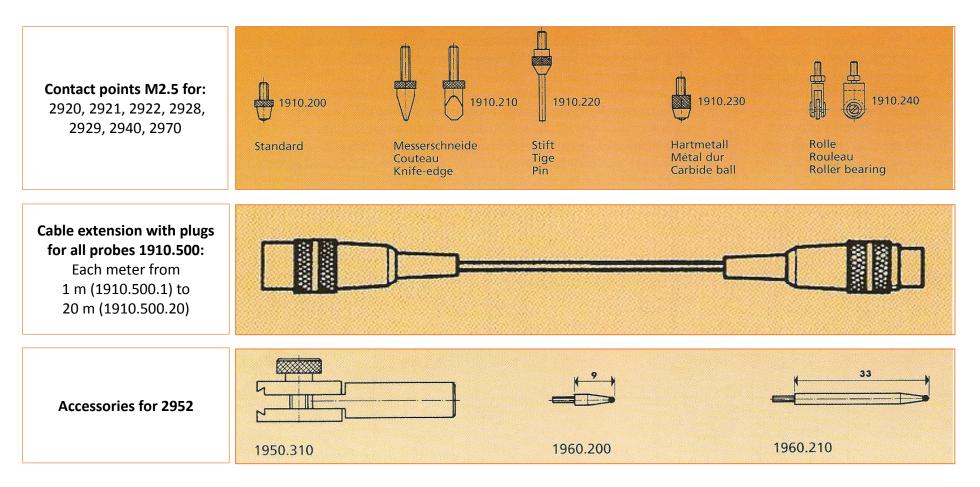
Nominal Sensitivity	Power Supply	Output resistive load	Typical input impedance	Typical output impedance	Maximum Power	Reference temperature
73.75 mV/V/mm	3 Vrms – 13 KHz	2000 Ω	260 Ω	1000 Ω	50 mVA	20 ºC ±0.5

Environment			Materials						
Zero drift	Operating temperature	Maximum relative humidity	Housing	Contact point	Sealing bellows	Male cable connector	Cable*		
0.15 µm/ºC	-10+65 ºC	80 %	Stainless steel carbide chromed	M 2.5 Carbide tungsten	Nitrile (Viton optional)	DIN 4532 without pin 6	2 m (available in size as long as 20 m in PUR as option)		

\*14 to 20 m cable length will affect the output electrical signal by a minimum of 2% loss.

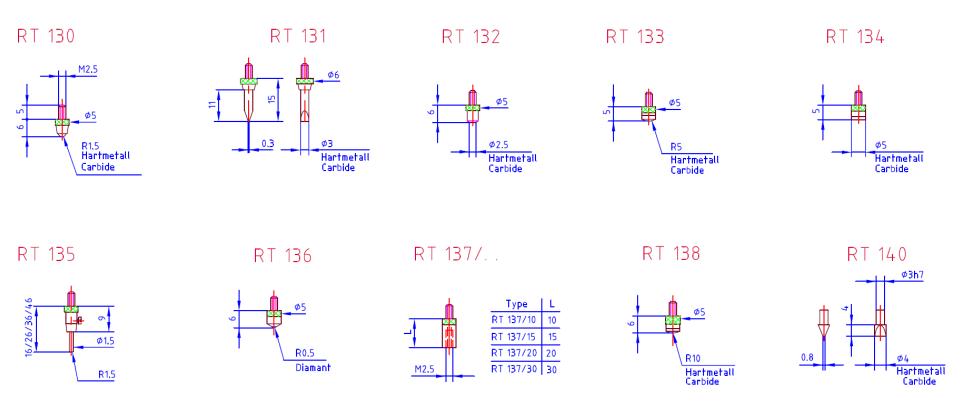
PRETEC METROLGY SA CH-2525 Le Landeron

## Standard **accessories** product range



### **Customized** ones are available!

## Standard **accessories** product range



### **Customized** ones are available!

# PRETEC products and services

Electronic comparators – Electronic measuring probes – Electronic bore gages – Air electronic converters – Air plugs – Measuring computers – SPC software – Custom design fixtures - Engineering

#### PFL Group

PRETEC is part of the Swiss Group PFL which includes PFL ANTRALUX, PRECEL, ECK-PFL and XACTOOLS Companies. All these sisters companies are specialized in putting together solution that combine a unique know how and long experience in projects in the fields of dimensional metrology, processes automation and engineering. Industries covered but not limited to are automotive, medical, watch, aviation, aerospace and food.

For more than 40 years, the Group PFL has continuously put a strong emphasize in using full synergies of the Group companies at the customer satisfaction.

PFL Group international sales network and business key partners are here to provide our customers with solution that are totally fulfilling their requirements. Please visit us at www.pfl.ch.



### Standard and tailor-made solutions