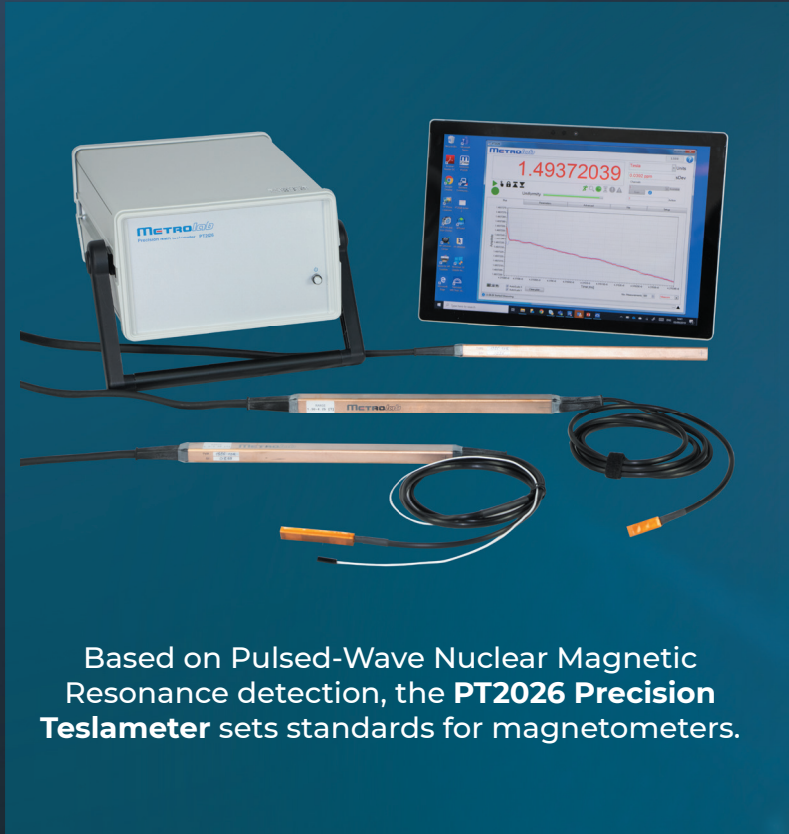


## PT2026 NMR PRECISION TESLAMETER

THE GOLD STANDARD FOR MAGNETIC FIELD MEASUREMENTS



Based on Pulsed-Wave Nuclear Magnetic Resonance detection, the **PT2026 Precision Teslameter** sets standards for magnetometers.



Extended range of 38 mT - 30 T



Integrated 3-axis Hall sensor



Ultra-high precision: < 10 ppb at 3 T



Versatile software interface



Small gaps, high radiation: specialty probes with remote passive measurement head



Upgradable to the Magnetic Field Camera MFC2046



Small gaps, high precision: specialty probes with remote active measurement head



Tolerant to field gradients > 1000 ppm/cm at 1 T field



Flexible probe ranges: Standard or custom probes; one standard probe covers 1.5 & 3 T



Fast measurement rate up to 33 Hz



Upgradable to multipoint measurements

### ABOUT METROLAB



We are the **global market leader** for precision magnetometers. Established in Switzerland in **1985**, we have won the trust of all the large physics laboratories and all leading players in Magnetic Resonance Imaging, **across the world.** With Metrolab, you measure magnetic fields with **Swiss precision and quality.**

# TECHNICAL CHARACTERISTICS AND ACCESSORIES

## SYSTEM

<b>MEASUREMENT PRINCIPLE</b>	Pulsed-Wave NMR
<b>FREQUENCY RANGE</b>	1 MHz - 1.1 GHz
<b>RESOLUTION</b>	±0.1 Hz (stable field, low gradient, no averaging), < 0.01 ppm in uniform 1.5 and 3.0 T field (typical)
<b>ACCURACY</b>	±5 ppm, independant of temperature
<b>MAX FIELD GRADIENT</b>	> 1000 ppm/cm at 1 T field
<b>MEASUREMENT RATE</b>	Up to 33 Hz
<b>SIZE</b>	210 x 125 x 324 mm (main unit, optional rack mount)
<b>COMPUTER INTERFACE</b>	USB / USBTMC, Ethernet / VXI-11; IEEE 488.2; SCPI
<b>SOFTWARE</b>	Dedicated PT2026 software
<b>API</b>	Access to all system features; LabVIEW® 2015 driver and C++ API
<b>TRIGGER</b>	Trigger In or Trigger Out
<b>CLOCK CONNECTOR</b>	10 MHz; External Reference in or Internal Reference out

## PROBES

Model 1326 probes have the same form factor as PT2025 model 1062 probes. A single connector makes it easy to plug and unplug. An integrated 3-axis Hall probe speeds up the search for the NMR signal.

Model 1426 probes have a remote passive measurement head that fits into small gaps and is ideal for high-radiation environments that would damage electronic components.

Model 1526 probes have a remote active measurement head that fits into small gaps. The local treatment of the NMR signal improves the signal-to-noise ratio and allows longer cables.



	Model 1326	Model 1426	Model 1526
<b>STANDARD RANGES PROTON PROBES (P)</b>	0.038 to 11.7 T Covered by 5 probes	0.19 to 10.57 T Covered by 4 probes	0.038 to 11.7 T Covered by 5 probes
<b>STANDARD RANGES DEUTERIUM PROBES (D)</b>	10.0 - 30.0 T	8.0 - 22.8 T	10.0 - 30.0 T
<b>WIDE-RANGE PROTON PROBE FOR HIGHLY UNIFORM FIELDS</b>	0.2 - 3.0 T	Not available	0.2 - 3.0 T
<b>HALL PROBE ASSISTANCE</b>	Integrated	Not available	Optional
<b>SEARCH TIME</b>	With Hall assist < 1s Without Hall assist < 10s	< 10s	With Hall assist < 1s Without Hall assist < 10s
<b>PROBE ELECTRONICS SIZE</b>	16 x 12 x 231 mm	16 x 12 x 231 mm	16 x 12 x 231 mm
<b>MAIN CABLE LENGTH</b>	10 m, custom available up to 100 m (incl. multiplexers)		
<b>REMOTE HEAD SIZE</b>	Not applicable	9.2 x 6.2 x 31.5 mm (p) 16.2 x 6.2 x 31.5 mm (D)	10.9 x 6.2 x 60.1 mm (p) 15.9 x 6.2 x 60.1 mm (D)
<b>REMOTE HEAD CABLE LENGTH</b>	Not applicable	0.5 m (4.3 mm)	1.5 m std, up to 10 m

## ACCESSORIES

**NMR probe multiplexer, MUX6026**, 4 or 8 channel multiplexers. Connect multiplexers with multiplexers to control up to 512 probes.

**Probe-extension/multiplexer cable, 3026-10M**, standard length 10 m, custom length up to 100 m.

**Transit case, TC8026**, holds one PT2026 NMR teslameter, four probes, one multiplexer, and one probe-extension/multiplexer cable.

## WARRANTY AND CALIBRATION

Warranty: 2 years

Calibration interval of the main unit PT2026: 12 months

CE marked

Specifications are subject to change; for detailed and up-to-date specifications, please see [www.metrolab.com/PT2026/specs](http://www.metrolab.com/PT2026/specs)

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