



NMR PRECISION TESLAMETER PT2026

THE GOLD STANDARD FOR MAGNETIC FIELD MEASUREMENTS



Based on Pulsed-wave Nuclear Magnetic Resonance detection, the NMR Precision Teslameter PT2026 sets standards for NMR magnetomers.



High accuracy Ultra high precision



Integrated 3-axis Hall effect sensor



Versatile software interface



Extended range 38 mT - 30 T



Specialized probes for high radiation



Specialized probes for small spaces



Fast measurement rate up to 33 Hz



High tolerance to field gradients



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.

SYSTEM

MEASUREMENT PRINCIPLE	Pulsed-Wave NMR 1 MHz - 1.1 GHz		
FREQUENCY RANGE			
PRECISION	± 0.1 Hz (stable field, low gradient, no averaging), < 0.01 ppm in uniform 1.5 and 3.0 T field (typical)		
ACCURACY	±5 ppm, independant of temperature		
REPRODUCIBILITY BETWEEN INSTRUMENTS	±1 ppm		
MAX FIELD GRADIENT	> 1 mT/cm		
MEASUREMENT RATE	Up to 33 Hz		
SIZE	210 x 125 x 324 mm (main unit, optional rack mount)		
COMPUTER INTERFACE	USB / USBTMC, Ethernet / VXI-11; IEEE 488.2; SCPI		
SOFTWARE	Dedicated PT2026 software		
API	Access to all system features; LabVIEW® 2020 driver and C++ API		
TRIGGER	Trigger In or Trigger Out		
CLOCK CONNECTOR	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

	Model 1326	Model 1426	Model 1526	
STANDARD RANGES PROTON PROBES (P)	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	
STANDARD RANGES DEUTERIUM PROBES (D)	10.0 - 30.0 T	8.0 - 22.8 T	10.0 - 30.0 T	
WIDE-RANGE PROTON PROBE FOR HIGHLY UNIFORM FIELDS	0.2 - 3.0 T	Not available	0.2 - 3.0 T	
HALL PROBE ASSISTANCE	Integrated	Optional		
SEARCH TIME	With Hall assist < 1s • Without Hall assist < 10s *			
PROBE ELECTRONICS SIZE	16 x 12 x 231 mm	16 x 12 x 231 mm	16 x 12 x 231 mm	
MAIN CABLE LENGTH	10 m, custom available up to 100 m (incl. multiplexers)			
REMOTE HEAD SIZE	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)	
REMOTE HEAD CABLE LENGTH	Not applicable	0.5 m (4.3 mm)	1.5 m std, up to 10 m	

^{*10} s worse case scenario full range

ACCESORIES & UPGRADES

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.

NMR field regulation module RG8026, coupled with a PT2026 and probe, the RG8026 provides closed-loop magnetic field regulation at the level of parts per million!

WARRANTY & CALIBRATION

Warranty: 5 years

Recommended calibration interval:

12 months

CE marked

Specifications are subject to change; for details and up-to-date specifications, see: www.metrolab.com/products/nmr-precision-teslameter-pt2026/

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^{**}Thin probes: down to 1.5 mm thick