



NMR25-4 Brochure v1.03 EN

The new NMR25-4 teslameter redefines compact NMR magnetic field measurement technology. Fully integrated in a **1U rack format**, this all-in-one instrument combines the gaussmeter, four probes multiplexer, and preamplification stage into a single unit. Designed for maximum simplicity, it can operate with a single Ethernet PoE or USB-C cable offering an ultra-compact and easy-to-integrate solution for high-precision measurements.

Ultra-High Resolution and Ultra-Low Noise Performance

5 nT Reading resolution with < 0.5 μ T absolute accuracy
Noise down to 0.1 μ Tpp

Ultra Compact Format & Small Probe Size

1U format, 137 x 165 x 40 mm (L x W x H), < 1 Kg weight
Two units fit within a single 19-inch rack width
Extremely compact standard probes: 6 x 16 x 142 mm

Smart and Flexible Connectivity

2 USB-C ports for serial-over-USB operation
RS232 /485 through 9 pts Sub-D connector (up to 921 600 bauds)
RJ45 Ethernet connector with power over ethernet (PoE / PoE+)

Low Power Equipment

Power consumption < 5 Watts (5V - 1A max)
Flexible power input options via Ethernet (PoE), SUB-D, or USB-C connectors, with optional wide-range 5 to 24 V power input
Can be powered from a smartphone charger, PC USB port, or external power bank

High tolerance to field gradients

Tolerates field gradients > 2 mT/cm at 1 T (2000 ppm/cm)

High-Speed Reading and Low Search Time

Fast 100 Hz measurement rate with adjustable moving average from 1 to 250 measurements
Finds and locks onto the signal in less than one second

Wide Measurement Range

16 mT to 13 T, with high dynamic range probe of 5:1 typical
90 mT to 2.2 T or 140 mT to 3 T covered using 2 probes
16 mT to 2.2T covered using 3 probes

Reliability & Service Continuity

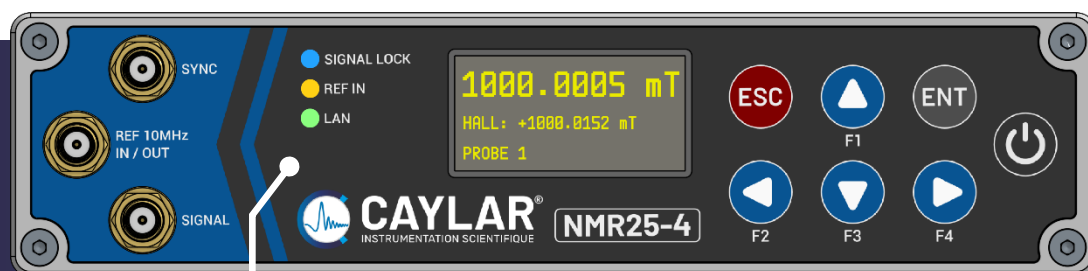
5-year warranty & long-term support availability
40+ years of Drusch service expertise

Suitable for High-Radiation Environments

No active components inside the probe
Proven performance under extreme radiation for over 20 years

Custom Probe Solutions

Ultra-Thin Probe Design (< 2 mm), UHV compatible probes
Custom geometry and range



Front-panel control via the integrated keypad and display enables standalone operation without external control connections.

Supports up to 4 probes, with an internal multiplexer. Optional parallel multi-channel readout.

