

Price list

(Last update: January 18th, 2021 - Replaces all previous price lists)

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PT2026 NMR TESLAMETER AND ACCESSORIES

PT2026	NMR TESLAMETER Bench-mount unit, 1 MHz – 1 GHz frequency range, 0.1Hz resolution. Built-in USB and Ethernet interfaces. Includes software and LabVIEW® driver.	22'000
MUX6026-4	4-CHANNEL MULTIPLEXER For up to 4 channels. For direct connection of any combination of xx26 NMR Probes or 6026 Multiplexers, up to 3 levels of multiplexers.	5'900
MUX6026-8	8-CHANNEL MULTIPLEXER For up to 8 channels. For direct connection of any combination of xx26 NMR Probes or 6026 Multiplexers, up to 3 levels of multiplexers.	7'500
TC8026	TRANSIT CASE for PT2026 system	1'090
3026-10M	CABLE 10m cable between NMR Teslameter Main Unit / 6026 Multiplexer, or cable extension for any xx26 NMR Probe.	500
3026-11M	CABLE 11m cable between NMR Teslameter Main Unit / 6026 Multiplexer, or cable extension for any xx26 NMR Probe. Optional length up to 50 meters	800 36
3026-51M	CABLE 51m cable between NMR Teslameter Main Unit / 6026 Multiplexer, or cable extension for any xx26 NMR Probe. Optional length up to 100 meters	2'350 40

PT2026 PROBES

STANDARD PROBES IN COPPER TUBE OF 16.5x12.5x230 mm

1326-10R-0.038-0.14	Transverse & longitudinal fields, 7.5mm Ø natural rubber sample, with 10m cable.	3'930
1326-10R-0.13-0.48	Transverse & longitudinal fields, 5.2mm Ø natural rubber sample, with 10m cable.	3'930
1326-10R-0.46-1.50	Transverse & longitudinal fields, 3mm Ø natural rubber sample, with 10m cable.	3'930
1326-10R-0.90-3.20	Transverse & longitudinal fields, 3mm Ø natural rubber sample, with 10m cable.	3'930
1326-10R-1.40-4.80	Transverse & longitudinal fields, 3mm Ø natural rubber sample, with 10m cable.	3'930
1326-10R-4.35-11.70	Transverse & longitudinal fields, 1.8mm Ø natural rubber sample, with 10m cable.	3'930
1326-10D-10.00-30.00	Transverse & longitudinal fields, 3.6mm Ø deuterium sample, with 10m cable.	4'400
1326-10R-X.XX-Y.YY	Transverse & longitudinal fields, Natural rubber sample, custom range, with 10m cable.	4'900
1326-10D-X.XX-Y.YY	Transverse & longitudinal fields, Deuterium sample, custom range, with 10m cable.	5'400
1326-10R-0.10-3.00	Transverse & longitudinal fields, 7.5mm Ø natural rubber sample, with 10m cable.	9'000
OPTIONAL LENGTH FOR PROBE CABLES		
	Exceeding 10 meters for probe 1326, per meter:	20

REMOTE MEASUREMENT HEAD PROBES

1526-10R-0.038-0.14	Transverse & longitudinal fields, 7.5mm Ø natural rubber sample, with 10m cable.	4'400
1526-10R-H-0.038-0.14	With 3-axis Hall probe.	5'300
1526-10R-0.13-0.48	Transverse & longitudinal fields, 5.2mm Ø natural rubber sample, with 10m cable.	4'400
1526-10R-H-0.13-0.48	With 3-axis Hall probe.	5'300
1526-10R-0.46-1.50	Transverse & longitudinal fields, 3mm Ø natural rubber sample, with 10m cable.	4'400
1526-10R-H-0.46-1.50	With 3-axis Hall probe.	5'300
1526-10R-1.40-4.80	Transverse & longitudinal fields, 3mm Ø natural rubber sample, with 10m cable.	4'400
1526-10R-H-1.40-4.80	With 3-axis Hall probe.	5'300

1526-10R-4.35-11.70	Transverse & longitudinal fields, 1.8mm Ø natural rubber sample, with 10m cable.	4'440
1526-10R-H-4.35-11.70	With 3-axis Hall probe.	5'300
1526-10D-10.00-30.00	Transverse & longitudinal fields, 3.6mm Ø deuterium sample, with 10m cable.	5'100
1526-10D-H-10.00-30.00	With 3-axis Hall probe.	6'000
1526-10R-X.XX-Y.YY	Transverse & longitudinal fields, Natural rubber sample, custom range, with 10m cable.	5'400
1526-10R-H-X.XX-Y.YY	With 3-axis Hall probe.	6'300
1526-10D-X.XX-Y.YY	Transverse & longitudinal fields, Deuterium sample, custom range, with 10m cable.	6'100
1526-10D-H-X.XX-Y.YY	With 3-axis Hall probe.	7'000
1526-10R-0.10-3.00	Transverse & longitudinal fields, 7.5mm Ø natural rubber sample, with 10m cable.	9'500
1526-10R-H-0.10-3.00	With 3-axis Hall probe.	10'400

REMOTE MEASUREMENT HEAD PROBES FOR RADIATIVE ENVIRONMENTS

1426-10R-0.19-0.52	Transverse & longitudinal fields, 3mm Ø natural rubber sample, with 10m cable.	4'400
1426-10R-0.42-1.29	Transverse & longitudinal fields, 3mm Ø natural rubber sample, with 10m cable.	4'400
1426-10R-1.13-3.52	Transverse & longitudinal fields, 3mm Ø natural rubber sample, with 10m cable.	4'400
1426-10R-3.29-10.57	Transverse & longitudinal fields, 3mm Ø natural rubber sample, with 10m cable.	4'400
1426-10D-8.00-22.80	Transverse & longitudinal fields, 3.6mm Ø deuterium sample, with 10m cable.	5'100
1426-10R-X.XX-Y.YY	Transverse & longitudinal fields, Natural rubber sample, custom range, with 10m cable.	5'400
1426-10D-X.XX-Y.YY	Transverse & longitudinal fields, Deuterium sample, custom range, with 10m cable.	6'100

PT2025 NMR TESLAMETER PROBES

FIELD RANGE (R) IN TESLA

R = 1 : 0.044 to 0.13	R = 5 : 0.7 to 2.1
R = 2 : 0.09 to 0.26	R = 6 : 1.5 to 3.4
R = 3 : 0.17 to 0.52	R = 7 : 3.0 to 6.8
R = 4 : 0.35 to 1.05	R = 8 : 6.0 to 13.7

1062-R-10M	PROBE WITH INTEGRAL AMPLIFIER Transverse & longitudinal fields, with 10m cable (other lengths upon request, up to 100m) Probes R1 to R5 Probes R6 to R8	2'785 3'495
1082-R-10M	MINI FLEXIBLE PROBE WITH INTEGRAL AMPLIFIER Transverse fields, with 10m cable (other lengths upon request, up to 100m). Probes R1, R2 Probes R3 to R5 Probes R6 to R8	4'055 3'105 4'055
	OPTIONAL LENGTH FOR PROBE CABLES exceeding 10 meters for probe 1062 or 1082, per meter:	20
EXT-1062-5M	UNIVERSAL 1062 PROBE EXTENSION CABLE 5m extension cable for 1062 probe with male/female connectors Optional length up to 90 meters, per meter:	550 20
1100-20	GRADIENT COMPENSATION COIL Gradient coil pair for 1060/1062 probes. Compensates a single-axis, transverse linear field gradient of up to 20 G/cm.	495
1100-40	GRADIENT COMPENSATION COIL Gradient coil pair for 1060/1062 probes. Compensates a single-axis, transverse linear field gradient of up to 40 G/cm.	1'390
ACC-1060	GRADIENT COMPENSATION COIL Gradient coil pair for 1060/1062 probes. Compensates a single-axis, longitudinal linear field gradient of up to 100 G/cm.	900

MFC2046 NMR MAGNETIC FIELD CAMERA

MFC2046	NMR MAIN UNIT Multi-probe NMR Teslameter system for field mapping, decay measurement, and magnetic noise monitoring. The Oven Controlled Crystal Oscillator (OCXO) reference clock provides a frequency stability of ± 0.1 ppm from -25°C to 70°C – down to 0.03 to 0.05 ppm over a period of 1 to 3 days. Including: - PT2026 NMR Teslameter - FCA7046 Field Camera Amplifier - RB8045 Remote Control Box - 3026-10M Cable - MFCTool Software - Camera firmware option	33'000
MFC9046	NMR PROBE ARRAY 1. <u>Standard half-moon configuration</u> a) 24 measurement points with normalization, at 1.5T and 3.0T: b) 24 measurement points with normalization, fields below 3.0T: c) 24 measurement points without normalization, fields above 3.0T: d) Special configuration additional cost (Elliptic, ...): e) Additional wide-range probe in the center f) For each additional probe add: 2. <u>Other configurations</u> Engineering and tooling cost for custom design: One-time charge for custom probe arrays	12'580 13'615 9'990 1'550 2'000 260 10'415
MFC2046-TC	TRANSIT CASE FOR MFC2046 SYSTEM	1'500

NMR MAGNETIC FIELD CAMERA ACCESSORIES

MFC3039	HORIZONTAL PROBE ARRAY HOLDER Mechanical device designed to hold the half-moon probe-array and to rotate it inside the magnetic field, with a selection of angular increments of 12°, 24°, 36°, 16° or 32°. Built in aluminium, can be adapted to most magnet cryostats.	8'010
MFC3040	VERTICAL PROBE ARRAY HOLDER Mechanical device designed to hold the half-moon probe-array and to rotate it inside the magnetic field, with a selection of angular increments of 12°, 24°, 36°, 16° or 32°. Can be adapted to most open magnets.	7'300
MFC3040-ADP	ADAPTOR PLATE FOR MFC3040 PROBE ARRAY HOLDER	2'750

MFC3045 NMR MAGNETIC FIELD CAMERA

MFC3048 NMR PROBE ARRAY (only existing designs)

1. Standard half-moon configuration

a) 24 measurement points with normalization, at 1.5T and 3.0T:	12'580
b) 24 measurement points with normalization, fields below 3.0T:	13'615
c) 24 measurement points without normalization, fields above 3.0T:	9'990
d) Special configuration additional cost (Elliptic, ...):	1'550
e) For each additional probe add:	260

Note: new custom designs of the MFC3048 Probe Array are no longer possible.

THREE-AXIS MAGNETOMETERS

DESKTOP KITS

THM1176-LF-PC	<p>Desktop kit with Low-Field 3-Axis Hall Magnetometer</p> <p>Compact 3-axis Hall magnetometer (Gaussmeter) for measuring fields up to 8mT with 20μT accuracy, including AC fields up to 1kHz, using Melexis Hall effect sensors.</p> <p>Including:</p> <ul style="list-style-type: none"> - 3-axis Low-Field Hall Magnetometer with 3 meter cable - Zero Gauss Chamber - Full-range calibration - USB Stick with acquisition software for Windows and Mac, API, and user's manual - Software license from Metrolab, including free updates 	4'200
THM1176-MF-PC	<p>Desktop kit with Medium-Field 3-Axis Hall Magnetometer</p> <p>Compact 3-axis Hall magnetometer (Gaussmeter) for measuring fields up to 3T with 1% accuracy, including AC fields up to 1kHz, using an integrated MagVector™ MV2 3-axis Hall effect sensor.</p> <p>Including:</p> <ul style="list-style-type: none"> - 3-axis High-Field Hall Magnetometer with 3 meter cable - Zero Gauss Chamber - Full-range calibration on 0.1, 0.3, 1 and 3T ranges - USB Stick with acquisition software for Windows and Mac, API, and user's manual - Software license from Metrolab, including free updates 	5'060
TFM1186-PC	<p>Desktop kit with 3-Axis Fluxgate Magnetometer</p> <p>Compact 3-axis Fluxgate magnetometer for measuring very low fields up to 100μT with 4nT resolution, including AC fields up to 1kHz, using a Bartington 3-axis Fluxgate sensor.</p> <p>Including:</p> <ul style="list-style-type: none"> - 3-axis Fluxgate Magnetometer with 3 meter cable - Separate calibration of electronics and probe - USB Stick with acquisition software for Windows and Mac, API, and user's manual - Software license from Metrolab, including free updates 	6'370
THM1176-HF-PC	<p>Desktop kit with High-Field 3-Axis Hall Magnetometer</p> <p>Compact 3-axis Hall magnetometer (Gaussmeter) for measuring fields up to 20T with 1% accuracy, including AC fields up to 1kHz, using an integrated Senis 3-axis Hall effect sensor.</p> <p>Including:</p> <ul style="list-style-type: none"> - 3-axis High-Field Hall Magnetometer with 6 meter cable - Zero Gauss Chamber - Full-range calibration on 0.1, 0.5 and 3T ranges; 20T range calibrated at 7T, 9.4T and 14.1T - USB Stick with acquisition software for Windows and Mac, API, and user's manual - Software license from Metrolab, including free updates 	7'955
THM1176-HFC-PC	<p>Desktop kit with High-Field Compact 3-Axis Hall Magnetometer</p> <p>Ultra-compact 3-axis Hall magnetometer (Gaussmeter) for measuring fields up to 20T with 1% accuracy, including AC fields up to 1kHz, using an integrated Senis 3-axis Hall effect sensor.</p> <p>Including:</p> <ul style="list-style-type: none"> - 3-axis High-Field Hall Magnetometer with 3 meter cable - Zero Gauss Chamber - Full-range calibration on 0.1 and 0.5T; 3 and 20T ranges calibrated to 1.5T - USB Stick with acquisition software for Windows and Mac, API, and user's manual - Software license from Metrolab, including free updates 	9'300

HANDHELD KITS

Each Metrolab THM1176/TFM1186 handheld kit includes the corresponding desktop kit, **plus:**

- Industrial-quality Windows 10 Tablet with Pistol Grip
- Adaptor cable
- Pre-installed acquisition software, with licenses from Metrolab (including free updates) and National Instruments
- USB Stick with acquisition software for Windows and Mac, API, and user's manual
- Carrying Case

THM1176-LF-PDA	Handheld kit with Low-Field 3-Axis Hall Magnetometer	5'895
THM1176-MF-PDA	Handheld kit with Medium-Field 3-Axis Hall Magnetometer	6'755
TFM1186-PDA	Handheld kit with 3-Axis Fluxgate Magnetometer	8'065
THM1176-HF-PDA	Handheld kit with High-Field 3-Axis Hall Magnetometer	9'650
THM1176-HFC-PDA	Handheld kit with High-Field Compact 3-Axis Hall Magnetometer	10'995

DUO KIT

THM1176-DUO	Discount for any combination of two of the above 3-Axis Magnetometers	-1'780
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THM1176/TFM1186 OPTIONS

3076-6M	Optional 6 meter cable length for the Three-Axis Magnetometers	75
8076	Tablet and carrying case for THM1176/TFM1186 desktop kit Including: <ul style="list-style-type: none"> - Industrial-quality Windows 10 Tablet with Pistol Grip - Adaptor cable - Pre-installed acquisition software, with licenses from Metrolab (including free updates) and National Instruments - USB Stick with acquisition software for Windows and Mac, API, and user's manual - Carrying Case 	1'695

DIGITAL INTEGRATORS

FDI2056 FAST DIGITAL INTEGRATOR

A fast, ultra-high precision digital integrator for magnetic flux measurements using fixed or moving sense coils, **including:**

- One, two or three FDI2056 Channel Cards with Quadrature Signal Decoder, Trigger factory, Sampler Mode and on-board memory.
- One FDI7056 4-Slot 6U PXI crate for Fast Digital Integrator, configurable for benchtop or rack-mount use.
- Crate controller with Ultra Low Power CPU 1GHz running Windows 7 32bit, 16GB disk, Dual Gigabit Ethernet Controllers, one DVI connector.
- Pre-installed acquisition software, with license from Metrolab including free updates.
- CD with User's manual and LabVIEW Application Programming Interface software.

FDI2056-1	Single-Channel Fast Digital Integrator (FDI) System	25'110
FDI2056-2	Two-Channel Fast Digital Integrator (FDI) System	44'272
FDI2056-3	Three-Channel Fast Digital Integrator (FDI) System	63'234
FDI2056	Fast Digital Integrator (FDI) Channel Card	19'960

MAGVECTOR™ MV2 MAGNETOMETER ON A CHIP

MV2

MagVector™ MV2 3-axis magnetic sensor

Low noise: 300 nT/√Hz; 4 selectable measurement ranges: 0.1, 0.3, 1 and 3T (optionally to 30T); supply voltage: 3.3 V or 5 V; analog or SPI interface; selectable bandwidth: up to 3 kHz; selectable resolution: 14 to 16 bits; non-magnetic QFN 3x3 package.
Minimum Order Quantity of 5 pieces, cut tape.

5 pieces	600
10 pieces	400
25 pieces	320
50 pieces	255
100 pieces	220
500 pieces	185
1'000 pieces	160
2'000 pieces	140
5'000 pieces	110

MV2-Eval

Evaluation kit for MagVector™ MV2 3-axis magnetic sensor

1'600

The MagVector™ MV2 Evaluation Kit provides a flexible turnkey hardware and software environment that allows all features of the MagVector™ MV2 to be exercised. The kit consists of:

- Test board with MagVector™ MV2 sensor
- Preprogrammed Arduino board that connects to the test board
- Arduino firmware to drive the MagVector™ MV2, including source code
- Host software to exercise the MagVector™ MV2, including source code
- Two unmounted MagVector™ MV2 sensors.

PERMANENT MAGNETS

PM1055-027S	PERMANENT MAGNET WITH NMR HOMOGENEITY	3'800
	0.27T nominal field. Includes modulation coil to produce 0.75mT symmetric modulation. LEMO 00 connector for ± 20 mA regulation current. Pole diameter of 50 mm, pole gap of 13.5 mm, 0.9 kg.	
	Other fields (Full specifications upon request)	
PM1055-001F	Nominal Field 0.01T	4'000
PM1055-005F	Nominal Field 0.05T	4'000
PM1055-010F	Nominal Field 0.10T	4'000
PM1055-050N	Nominal Field 0.50T	3'800

TESTS AND CALIBRATIONS

A test sheet & calibration sheet are provided.
 Repair is quoted before execution.
 Delivery: 2 to 3 weeks, except otherwise indicated.

PER PT2025 OR PT2026 OR PDI5150 Channel Card OR FDI2056 Channel Card	1'000
Calibration is recommended every 12 months.	
We can also perform a complete test of the accessories:	
Test of 1030 Amplifier	155
Test of 1060 or 1062 NMR probe	130
Test of Main Unit to amplifier cable	85
 PER THM7025 3-AXIS HALL MAGNETOMETER	 400
Calibration is recommended every 12 months.	
 PER THM1176-LF OR THM1176-HFC 3-AXIS HALL MAGNETOMETER	 450
Calibration is recommended every 18 months.	
 PER THM1176-MF 3-AXIS HALL MAGNETOMETER, within calibration periods	 450
Calibration is recommended every 18 months.	
Four weeks in the year are fixed to perform batch calibrations:	
Week 10 Week 24 Week 37 Week 50	
To benefit from the discounted pricing for this batch operation, you must ensure that the instrument arrives at Metrolab the week before.	
 PER THM1176-MF 3-AXIS HALL MAGNETOMETER, outside calibration periods	 900
Calibration is recommended every 18 months.	
 PER TFM1186	 1'000
Calibration is recommended every 18 months.	
 PER THM1176-HF 3-AXIS HALL MAGNETOMETER	 upon request
Calibration is recommended every 18 months.	
Delivery: upon request.	
 PER MAIN UNIT MFC3045 or MFC2046	 1'000
PER NMR PROBE ARRAY MFC3048 or MFC9046	<u>1.5T & 3T</u> 2'590
Calibration/normalization is recommended every 12 months.	<u>Other Fields</u> 3'625

LEGACY PRODUCTS

For legacy products, do not hesitate to contact us. We will try to support you on a best-effort basis.

REPLACEMENT PARTS

Contact us for any replacement parts that may be required. We will do our best to serve you.

TERMS AND CONDITIONS

PRICES

- Prices are in Swiss Francs, ex-works, excluding taxes.
- The price includes standard packaging; special packaging is at extra charge.
- All prices are subject to change without notice.

QUANTITY DISCOUNT

A quantity discount is granted when ordering multiple copies of the same product, except for the THM1176-MF:

- For 2 units - 2%
- Per additional unit - 1%
- Maximum discount: - 12%

For the THM1176-MF, a special quantity discount policy is established. A quantity discount is granted when ordering multiple copies. For quantities greater than 10 units, an open order with a 12-month validity and partial deliveries is accepted.

- For 2 units - 2%
- Per additional unit, up to 10 units - 1%
- From 11 to 25 units - 12%
- From 26 to 50 units - 15%
- From 51 to 100 units - 17%
- From 101 to 150 units - 20%
- From 151 to 200 units - 23%
- More than 200 units - 26%

TERMS OF PAYMENT

- Payment in advance by bank transfer to:
Crédit Suisse SA
CH-1211 Genève 70, Switzerland
IBAN CH39 0483 5146 5386 4100 0
SWIFT : CRECSHZZ80A
- Alternatively, payment may be made by irrevocable letter of credit, as described below.

PAYMENT BY IRREVOCABLE LETTER OF CREDIT

- L/C payable to Banque Cantonale de Genève, as shown above.
- All bank charges, within and outside the customer's country, are to opener's account.
- All L/C terms must be accepted by Metrolab beforehand.
- Metrolab's administrative charges for payment by L/C: CHF 5'000
- No discounts are granted when paying by L/C.

DELIVERY

- For standard products, normal delivery is 8 to 12 weeks after receipt of order (ARO).

GUARANTEE

- METROLAB guarantees its products to be free from manufacturing and material defects for a period of 2 years after delivery, unless otherwise specified.
- Should any product purchased from METROLAB be found defective during this period, it will be replaced or repaired at the METROLAB plant in Geneva.
- Normal wear and tear are excluded from this guarantee.

CLAIMS

- All goods shipped by METROLAB should be checked immediately upon receipt. Potential claims must be reported to METROLAB within 15 days after receipt of goods.
- For defective goods, METROLAB will bear freight charges from the customer's territory to Switzerland, whereas the customer will bear same from Switzerland to its territory.
- METROLAB reserves the right to discontinue any instrument without notice, or to make design modifications at any time without obligation to make such modifications in instruments previously sold.