

Price list

(Last update: October 21st, 2009 - Replaces all previous price lists)

NMR TESLAMETERS	2
PROBES & ACCESSORIES	3
TESLAMETER CABLES	4
NMR MAGNETIC FIELD CAMERA	5
HALL EFFECT TESLAMETERS	6
DIGITAL INTEGRATORS	8
PERMANENT MAGNETS	9
CALIBRATION	10
REPLACEMENT PARTS	11
TERMS AND CONDITIONS	13





NMR TESLAMETERS

PT2025 NMR TESLAMETER 19'435

Bench-mount unit, 1Hz or 10⁻⁷T resolution. Built-in RS-232C interface; optional IEEE-488 interface (limited availability – upon request only). Automatic search and track over the full probe range and central of probe multiplexer.

full probe range and control of probe multiplexer.

PT4025 NMR TESLAMETER 21'840

Rack-mount, 19 inch. Same technical specifications as model PT2025.

IEEE-488 OPTIONAL IEEE-488 INTERFACE FOR PT2025 OR PT4025 (limited availability) 830

AMP1030 AMPLIFIER 2'730

To be used with 1060 & 1080 probes.

MUX2030 PROBE MULTIPLEXER 5'570

For up to 8 probes. For direct connection of 8x 1062 or 1082 NMR Probes, or 8x 1030 Amplifiers with 1060 or 1080 NMR probes. Suitable for widely separated probes.

MUX2031 PROBE MULTIPLEXER AMPLIFIER 6'700

For up to 8 probes. Eliminates requirement of a separate 1030 Amplifier for each probe.

Only for 1060 or 1080 NMR probes, not suitable for 1062 probes.

MUX2032 MULTIPLEXER OF MULTIPLEXER 5'570

Allows connecting up to 64 probes to one NMR Teslameter when used with 2030 or 2031

Multiplexers.

RG2040 FIELD REGULATION 8'145

Option for PT2025 or PT4025, provides closed-loop field control of electromagnet power supply systems. Includes one 10m cable and connectors. Fitting the RG2040 to an

existing PT2025 system implies exchanging the standard I/O board.

HS2060 HIGH STABILITY FREQUENCY COUNTER 1'575

Option for PT2025 or PT4025, provides an oven-controlled quartz oscillator. Fitting the

HS2060 to an existing system implies exchanging the standard CT board.

CC2020 CARRYING CASE FOR PT2025 SYSTEM 930

Can contain one NMR Teslameter, two probes with amplifier and 1010 cable.



PROBES & ACCESSORIES

FIELD RANGE (R) IN TESLA

1060-R-7M PROBE

Transverse & longitudinal fields, with 7m cable.

Has to be used with 1030 Amplifier.

 Probes R1 to R5
 2'100

 Probes R6 to R8
 3'000

1080-R-7M MINI FLEXIBLE PROBE

Transverse fields, with 7m cable. Has to be used with 1030 Amplifier.

 Probes R1, R2
 3'995

 Probes R3 to R5
 3'055

 Probes R6 to R8
 3'995

1062-R-10M PROBE WITH INTEGRAL AMPLIFIER

Transverse & longitudinal fields, with 10m cable (other lengths upon request, up to 100m) The integrated amplifier eliminates the requirement of a separate 1030 Amplifier, also allowing it to be used with a 2030 Multiplexer.

 Probes R1 to R5
 2'785

 Probes R6 to R8
 3'495

1082-R-10M MINI FLEXIBLE PROBE WITH INTEGRAL AMPLIFIER

Transverse fields, with 10m cable (other lengths upon request, up to 100m).

The integrated amplifier eliminates the requirement of a separate 1030 Amplifier, also allowing it to be used with a 2030 Multiplexer.

 Probes R1, R2
 4'055

 Probes R3 to R5
 3'105

 Probes R6 to R8
 4'055

OPTIONAL LENGTH FOR PROBE CABLES

Exceeding 7 meters for probes 1060 or 1080,

exceeding 10 meters for probe 1062 or 1082, per meter: 20

1100-20 GRADIENT COMPENSATION COIL

Gradient coil pair for 1060 probes.

Compensates a single-axis, transverse linear field gradient of up to 20 G/cm.

1100-40 GRADIENT COMPENSATION COIL 1'390

Gradient coil pair for 1060 probes.

Compensates a single-axis, transverse linear field gradient of up to 40 G/cm.

ACC-1060 GRADIENT COMPENSATION COIL 900

Gradient coil pair for 1060 probes.

Compensates a single-axis, longitudinal linear field gradient of up to 100 G/cm.

495



TESLAMETER CABLES

1010-10M	CABLE 10m cable between NMR Teslameter Main Unit / 2030 Multiplexer	500
	and 1030 Amplifier. Optional length up to 15m, per meter :	26
1010-16M	CABLE 16m cable between NMR Teslameter Main Unit / 2030 Multiplexer and 1030 Amplifier.	700
	Optional length up to 100m, per meter :	40
1011-10M	CABLE 10m cable between NMR Teslameter Main Unit / 2032 Multiplexer and 2030 / 2031 Multiplexer.	550
	Optional length up to 15 meters, per meter:	31
1011-16M	CABLE 16m cable between NMR Teslameter Main Unit / 2032 Multiplexer and 2030 / 2031 Multiplexers.	750
	Optional length up to 100 meters, per meter :	42
1012-10M	CABLE 10m cable for RG2040 with a 4-pin LEMO connector at one end.	205
	Additional cable length, per meter :	16
1015-10M	CABLE 10m cable between NMR Teslameter Main Unit and 2032 Multiplexer.	605
	Optional length up to 15 meters, per meter :	31
1015-16M	CABLE 16m cable between NMR Teslameter Main Unit and 2032 Multiplexer.	800
	Optional length up to 100 meters, per meter :	45
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
EXT-7025	EXTENSION CABLE FOR THM7025 Up to 8.5 meters long	185



NMR MAGNETIC FIELD CAMERA

MFC3045 NMR MAIN UNIT 31'000

Multi-probe NMR Teslameter system for field mapping and decay measurements. The Oven Controlled Crystal Oscillator (OCXO) reference clock provides a frequency stability of \pm 0.1ppm from -25°C to 70°C – down to 0.03 to 0.05 ppm over a period of 1 to 3 days.

Including: - 3045 NMR Main Unit (up to 32 measurement points)

- 3046 Power Supply Unit
- 10m cable between 3045 and 3046 - 3049 Remote Control Box with 4m cable
- MFCTOOL software, running under Windows XP/NT or 98/95

MFC USB OPTIONAL USB INTERFACE

1'000

For MFC3045 Main Unit. Includes a 5m USB Cable and Windows driver software that maps the MFC3045 USB connection to a COM port.

MFC USB-up USB UPGRADE

1'200

Replacement of the RS-232C connector on MFC3045 Main Unit. Includes a 5m USB Cable and Windows driver software that maps the MFC3045 USB connection to a COM port.

MFC3048 NMR PROBE ARRAY

1. Standard half-moon configuration

a) 24 measurement points without normalization:	9'990
b) Special configuration additional cost (Elliptic,):	1'550
c) For each additional probe add:	260

2. Normalization in MRI Magnet

a) For 1.5T and 3.0T fields add:	2'590
b) For other fields add	3'625

3. Other configurations

Engineering and tooling cost for custom design:

One-time charge for custom probe arrays with up to 24 measurement points 10'415

MFC3039 HORIZONTAL PROBE ARRAY HOLDER

8'010

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.

MFC3040 VERTICAL PROBE ARRAY HOLDER

7'300

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.

MFC3040-ADP ADAPTOR PLATE FOR MFC3040 PROBE ARRAY HOLDER

2'750

NJIG_xx-yyy NORMALIZATION TEMPLATE

1'450

Allows in-house normalization of Probe Arrays.

xx-yyy represents the Probe Array configuration: xx = # points, yyy = diameter in mm

MFC-TC TRANSIT CASE FOR MFC SYSTEM

1'800

MFC TRAINING upon request

Cost for a two-day and a half course, with Metrolab Instructor present full time.



HALL EFFECT TESLAMETERS

DESKTOP KITS

THM1176-HF-PC Desktop kit with High-Field 3-Axis Hall Magnetometer

5'060

The Metrolab THM1176-HF-PC is an 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.

Including: - 3-axis High-Field Hall Magnetometer with 3 meter cable

- Zero Gauss Chamber

- Full-range calibration on 0.1, 0.5 and 3T ranges; 20T range calibrated to 3T

- CD with acquisition software for Windows and Mac, LabVIEW source code, and user's manual

- Software license from Metrolab, including free updates

THM1176-LF-PC Desktop kit with Low-Field 3-Axis Hall Magnetometer

4'200

The Metrolab THM1176-LF-PC is an ultra-compact 3-axis Hall magnetometer (Gaussmeter) for measuring fields up to 7mT with 1% accuracy, including AC fields up to 1kHz.

Including: - 3-axis Low-Field Hall Magnetometer with 3 meter cable

Zero Gauss ChamberFull-range calibration

- CD with acquisition software for Windows and Mac, LabVIEW source code, and user's manual

- Software license from Metrolab, including free updates

HANDHELD KITS

THM1176-HF-PDA Handheld kit with High-Field 3-Axis Hall Magnetometer

6'755

The Metrolab THM1176-HF-PDA includes the complete desktop kit THM1176-HF-PC,

Plus:

- Industrial-quality PDA

- Heavy duty battery (2600 mAh)

- Adaptor cable

- Pre-installed acquisition software, with licenses from Metrolab including free updates, and National Instruments

- CD with acquisition software for Windows, Mac and PDA (Windows

Mobile), LabVIEW source code, and user's manual

Carrying Case

THM1176-LF-PDA Handheld kit with Low-Field 3-Axis Hall Magnetometer

5'895

The Metrolab THM1176-LF-PDA includes the complete desktop kit THM1176-LF-PC,

Plus:

- Industrial-quality PDA

- Heavy duty battery (2600 mAh)

- Adaptor cable

- Pre-installed acquisition software, with licenses from Metrolab including free updates, and National Instruments

- CD with acquisition software for Windows, Mac and PDA (Windows

Mobile), LabVIEW source code, and user's manual

- Carrying Case

NOTE

The PDA is guaranteed for one year, and its batteries for 3 months.



DUO KITS

THM1176-DUO-PC Desktop kit with High- and Low-Field 3-Axis Hall Magnetometers 7'495

The Metrolab THM1176-DUO-PC comprises both the THM1176-HF (±20T) and

THM1176-LF (±7mT) 3-axis Hall magnetometers.

- 3-axis High-Field Hall Magnetometer with 3 meter cable (calibrated Including:

- 3-axis Low-Field Hall magnetometer with 3 meter cable (calibrated over full range)

- Zero Gauss Chamber

- CD with acquisition software for Windows and Mac, LabVIEW source

code, and user's manual

- Software license from Metrolab, including free updates

THM1176-DUO-PDA Handheld kit with High- and Low-Field 3-Axis Hall Magnetometers

The Metrolab THM1176-DUO-PDA includes the complete desktop kit THM1176-DUO-PC,

Plus: - Industrial-quality PDA

- Heavy duty battery (2600 mAh)

- Adaptor cable

- Pre-installed acquisition software, with licenses from Metrolab including free updates, and National Instruments

- CD with acquisition software for Windows, Mac and PDA (Windows

Mobile), LabVIEW source code, and user's manual

- Carrying Case

OPTIONS

3076-5M Optional 5 meter cable length for the THM1176 3-Axis Hall Magnetometers 75

8076 PDA and carrying case for THM1176-HF-PC or THM1176-LF-PC 1'695

> Including: - Industrial-quality PDA

- Heavy duty battery (2600 mAh)

- Adaptor cable

- Pre-installed acquisition software, with licenses from Metrolab including free updates, and National Instruments

- CD with acquisition software for Windows. Mac and PDA (Windows

Mobile), LabVIEW source code, and user's manual

- Carrying Case

NOTE

The PDA is guaranteed for one year, and its batteries for 3 months.



DIGITAL INTEGRATORS

FDI2056	Fast Digital Integrator (FDI) Channel Card A fast, ultra-high precision digital integrator for magnetic flux measurements using fixed moving sense coils. Requires external trigger signal. Includes user's manual at LabVIEW Application Programming Interface software.	
FDI7056	FDI 3-Slot Crate (Benchtop) 3-Slut 6U CompactPCI (cPCI) crate for Fast Digital Integrator, configured for benchuse. One slot is reserved for crate controller or bridge card.	1'600 top
NI 779703-03	ExpressCard 8360 PCI Bridge PCI Bridge for laptop computers with ExpressCard interface. Includes computer interfaceard, cable and cPCI interface card.	3'400 ace
NI 779540-01	CardBus (PCMCIA) 8310 PCI Bridge PCI Bridge for laptop computers with CardBus (PCMCIA) interface. Includes computerface card, cable and cPCI interface card.	5'000 uter
NI 779505-03	PCI Express 8361 PCI Bridge PCI Bridge for desktop computers with PCI Express interface. Includes computerface card, cable and cPCI interface card.	2'990 uter
NI 778640-03	PCI 8331 PCI Bridge PCI Bridge for desktop computers with PCI interface. Includes computer interface carble and cPCI interface card.	5'000 ard,
PDI5025	DIGITAL INTEGRATOR (OBSOLETE) A precision digital integrator for magnetic flux measurements using fixed or moving ser coils. The PDI5025 can accept two PDI5150 integrator modules. Including: - 5150 Integrator Module - 5140 Trigger Module - 5130 Interface Module - a set of cables and connectors.	
PDI6025	DIGITAL INTEGRATOR (OBSOLETE) Please call for availability and pri Rack-mount, 19 inch. Same specifications as PDI5025.	cing
PDI5150	INTEGRATOR MODULE (OBSOLETE) Please call for availability and pri G64 Bus Eurocard version. Includes one 1013-10M cable.	cing
1141-10M	Encoder CABLE 10m cable for PDI5025, with a LEMO 5-pin connector at one end for Encoder. Additional cable length, per meter:	210 20
1142-10M	Motor CABLE 10m cable for PDI5025, with a LEMO 4-pin connector at one end for Motor. Additional cable length, per meter:	210 20
1150-10M	Coil CABLE 10m cable for PDI5025, with a LEMO 4-pin connector at one end for Coil. Additional cable length, per meter:	210



PERMANENT MAGNETS

D111055 0050	DEDMANIENT MA CHET WITH NIMB HOMOGENETY	01000
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 \pm 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



CALIBRATION

PER PT2025 OR PDI5150 SYSTEM	1'000
Calibration is recommended every 12 months.	
A test sheet & calibration sheet are provided.	
Repair is quoted before execution.	
Delivery: 2 weeks.	
We can also perform a complete test of the accessories:	
Test of 1030 Amplifier	155
Test of NMR probe	130
Test of Main Unit to amplifier cable	85
PER THM7025 3-AXIS HALL MAGNETOMETER	400
Calibration is recommended every 12 months.	
A test sheet & calibration sheet are provided.	
Repair is quoted before execution.	
Delivery: 2 weeks.	

PER THM1176-HF 3-AXIS HALL MAGNETOMETER, within calibration periods 450

Calibration is recommended every 18 months.

A test sheet & calibration sheet are provided.

Repair is quoted before execution.

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-HF 3-AXIS HALL MAGNETOMETER, outside calibration periods 900

Calibration is recommended every 18 months.

A test sheet & calibration sheet are provided.

Repair is quoted before execution.

Delivery: 2 to 3 weeks.

PER MAIN UNIT MFC3045		985
PER NMR PROBE ARRAY MFC3048	1.5T & 3T	2'590
Calibration is recommended every 12 months.	Other Fields	3'625

A test sheet & calibration sheet are provided.

Repair is quoted before execution.

Delivery: 3 to 4 weeks.



REPLACEMENT PARTS

PT2025	NMR TESLAME	TER (REPLACEMENT PARTS)	
	Rack 19" PT4025	nplete) v mechanical parts, without board) 5 without any board. s without any board. ble Eur. 240VAC ble US. 110VAC	2'250 1'990 2'140 2'570 2'525 695 2'675 910 4'440 3'960 15 20 25
1060 / 1062	PROBES (REPL	ACEMENT PARTS)	
	No. 6 to 8 Head (Copper tube Cable 7m lenght	nt with connectors	562 830 155 230 280 20 10
1080 / 1082	080 / 1082 MINI FLEXIBLE PROBE (REPLACEMENT PARTS)		
	No. 6 to 8 Head (Copper tube Cable 7m lenght	nt with connectors	696 1'030 185 235 280 10
THM7025	THREE AXIS HA	ALL TESLAMETER (REPLACEMENT PAR	TS)
	MU 7025 THS 7025-10 KFP 7025 CC 7025 HPS 7025-10 ZFC 7025 SC 7025-13 UM 7025	Main Unit Hall probe Keyboard front panel Carrying Case AC power adapter Zero Field chamber RS232 Cable Manual	1'430 1'235 345 130 220 160 210 75



THM1176	THREE AXIS HALL TESLAMETER (REPLACEMENT PARTS)		
	20066 11057	PDA (1200 mAh battery, adapter, no S/W) Adaptor cable	1'370 60
	20071	Heavy-duty battery (2600 mAh)	205
	20524	Zero Field chamber	220
	30011	Carrying Case	155
	20062	Cap for THM1176-HF probe	20
PDI5025	PRECISION DIG	ITAL INTEGRATOR (REPLACEMENT PARTS)	
	5120	Power Supply Module	1'050
	5140	ET Board	3'690
	5130	I/O Board	1'630
	5025-CA	Case for PDI5025 without any board.	1'810
MFC3045	NMR MAGNETIC	C FIELD CAMERA (REPLACEMENT PARTS)	
	MFC-3045-D	Main Unit	24'700
	MFC-3045-RB	Remote box	1'070
	MFC-3046	Power supply	2'850
	MFC-3045-CP	RS232 Cable 10m long	460
	MFC-3045-CR	Main Unit to Power supply cable 10m long.	660
	MFC-3045-WT	Tool software ans user's Manual	265
	11009	Power supply cable US. 110VAC	20
	11030	Power supply cable Eur. 240VAC	15
	3048-PAC	Probe array to main unit cable 3m long	1'220



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:

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

For the THM1176, 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 9 units	- 1%
-	From 10 to 20 units	- 10%
-	From 21 to 50 units	- 12%
-	From 51 to 100 units	- 15%
-	More than 100 units	- 17%

TERMS OF PAYMENT

- Payment in advance by bank transfer to:

Banque Cantonale de Genève CH-1211 Genève 2, Switzerland IBAN CH51 0078 8000 R322 8381 3 SWIFT: BCGECHGGXXX

SWIFT: BUGEUNGGXXX

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.