

1060 NMR PROBE

MINIATURE NMR PROBES

- **Range : 0.043 to 13.7 Tesla**
- **External amplifier required**
- **TO BE USED WITH PT 2025 or PT 4025 TESLAMETER MAIN UNIT**

The 1060 probes include 7m length standard cable connecting to the amplifier 1030 or the Multiplexer 2031.

The ^1H probes are built with a solid sample containing a large amount of hydrogen.

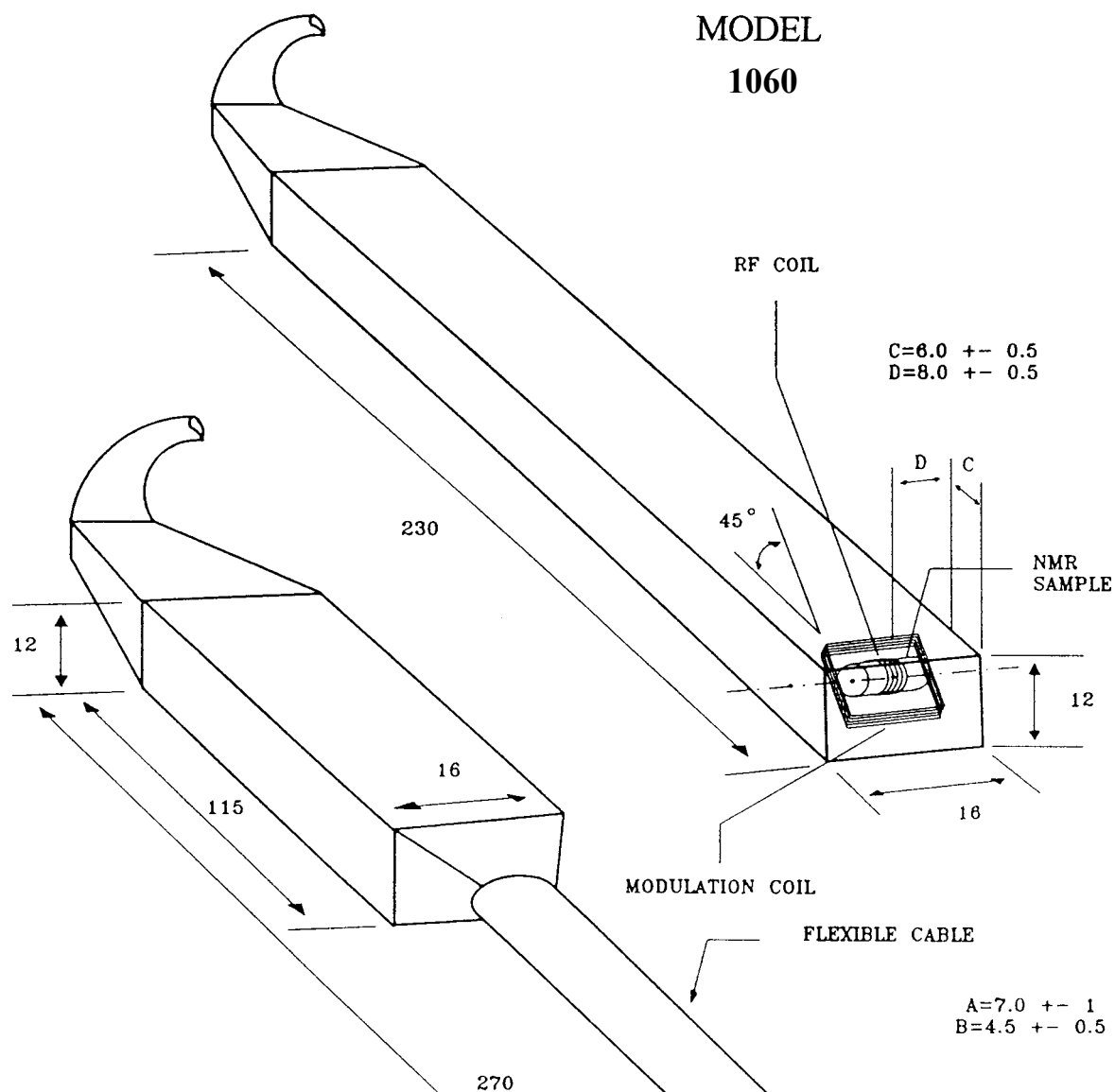
The ^2H probes are built with a sample of D_2O (heavy water) and consequently should not be exposed below freezing point.

Specifications :

Amplifier	:	Model 1030 required.
Probe identification	:	automatic.
Housing	:	beryllium copper.
External dimensions	:	16.5 x 12.5 x 230 mm, fits in 19 mm diameter.
Cable length	:	7 meters, special length available.
Connectors	:	one 5-pin LEMO and one BNC.
Multiplexed configurations	:	up to 8 probes can be connected to the 2031 multiplexer (or up to 64 with multiplexers 2032 and 2031).
Field direction	:	transverse and axial.
Absolute accuracy	:	better than ± 5 ppm.
Relative accuracy	:	0.1 ppm RMS.
Temperature coefficient	:	better than 0.05 ppm/°C.
Temperature range	:	+5 °C to +40 °C.
Storage temperature	:	-20 °C to 80 °C, except for heavy water probes (ranges: 6 to 8).

Probe ranges [Tesla]	Active sample [mm]	Required field homogeneity [ppm/cm]
R = 1 ^1H from 0.043 to 0.13	8 (dia.) 4.5 (L)	600
R = 2 ^1H from 0.09 to 0.26	5 (dia.) 4.5 (L)	1200
R = 3 ^1H from 0.17 to 0.52	4 (dia.) 4.5 (L)	1200
R = 4 ^1H from 0.35 to 1.05	4 (dia.) 4.5 (L)	1500
R = 5 ^1H from 0.7 to 2.1	4 (dia.) 4.5 (L)	250
R = 6 ^2H from 1.5 to 3.4	4 (dia.) 4.5 (L)	240
R = 7 ^2H from 3.0 to 6.8	4 (dia.) 4.5 (L)	300
R = 8 ^2H from 6.0 to 13.7	4 (dia.) 4.5 (L)	50

MODEL 1060



MODEL 1080

DIMENSIONS IN MM.
DRAWING NOT ON SCALE.

NMR SAMPLE DIMENSIONS (R=FIELD RANGE)
DIAM=8 (R=1)
DIAM=5 (R=2)
DIAM=4 (R=3 TO 8)
LENGTH=4.5 (R=1 TO 8)