

1080 NMR PROBE

SUBMINIATURE 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 1080 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 Probe identification Housing External dimensions Cable length Connectors Multiplexed configurations | | Model 1030 requiered. automatic. beryllium copper. 16.5 x 12.5 x 115 mm, + 9 X 6 X 155 mm fits in 10 mm diameter. 7 meters, special length available. one 5-pin LEMO and one BNC. up to 8 probes can be connected to the 2031 multiplexer (or up to 64 with multiplexers 2032 and 2031). |
|--|---|---|
| Field direction Absolute accuracy Relative accuracy Temperature coefficient Temperature range Storage temperature | : | transverse. better than ± 5 ppm. 0.1 ppm RMS. better than 0.05 ppm/°C. +5 °C to +40 °C. -20 °C to 80 °C, except for heavy water probes (ranges: 6 to 8). |

| Probe ranges [Tesla] | | | | | Active s [mn | | Required field homogeneity [ppm/cm] |
|----------------------------------|--|------------------------------|----------------------|------------------------------|-----------------|-------------------------------|--|
| R = 1 R = 2 R = 3 R = 4 | ¹ H from ¹ H from ¹ H from ¹ H from | 0.05 0.11 0.17 0.35 | to to to to | 0.13 0.26 0.52 1.05 | 4 (dia.) | · · · | 600 1200 1200 1500 |
| R = 5 | | 0.7 | to | 2.1 | 4 (dia.) | () | 250 |
| R = 6 R = 7 R = 8 | ² H from ² H from ² H from | 1.5 3.0 6.0 | to to to | 3.4 6.8 13.7 | 4 (dia.) | 4.5 (L) 4.5 (L) 4.5 (L) | 240 300 50 |

