1082 NMR PROBE

SUBMINIATURE INTEGRATED AMPLIFIER NMR PROBES

- Range : 0.043 to 13.7 Tesla
- External amplifier not required
- Easier to handle, more economical

• TO BE USED WITH PT 2025 or PT 4025 TESLAMETER MAIN UNIT

The 1082 integrated amplifier probes combine the function of the 1030 amplifier and the 1060 NMR probes in the same housing as the 1080 probes.

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:

METROLA

Instruments SA the world leader in NMR measurement

Amplifier Probe identification Housing External dimensions Cable length Connectors Multiplexed configurations	 built-in. automatic. beryllium copper. 16.5 x 12.5 x 115 mm, + 9 X 6 X 155 mm fits in 10 mm diameter. 10 meters, special length available. one 8-pin LEMO and one BNC. up to 8 probes can be connected to the 2030 multiplexer (or
Field direction Absolute accuracy Relative accuracy Temperature coefficient Temperature range Storage temperature	up to 64 with multiplexers 2032 and 2030). transverse. better than ± 5 ppm. 0.1 ppm RMS. better than 0.05 ppm/°C.

Probe ranges	Active sample	Required field homogeneity
$R = 1$ ${}^{1}H$ from0.05to0.13 $R = 2$ ${}^{1}H$ from0.11to0.26 $R = 3$ ${}^{1}H$ from0.17to0.52 $R = 4$ ${}^{1}H$ from0.35to1.05 $R = 5$ ${}^{1}H$ from0.7to2.1	5 (dia.) 4.5 (L) 5 (dia.) 4.5 (L) 4 (dia.) 4.5 (L) 4 (dia.) 4.5 (L) 4 (dia.) 4.5 (L)	600 1200 1200 1500 250
$R = 6$ ^{2}H from1.5to3.4 $R = 7$ ^{2}H from3.0to6.8 $R = 8$ ^{2}H from6.0to13.7	4 (dia.) 4.5 (L) 4 (dia.) 4.5 (L) 4 (dia.) 4.5 (L)	240 300 50

METROLAB INSTRUMENTS SA 110, ch. du Pont-du-Centenaire CH-1228 GENEVA (Switzerland) Tel: (41 22) 884 33 11 Fax: (41 22) 884 33 10 Email : <u>contacts@metrolab.ch</u> http://www.metrolab.ch

