

## Electromagnet Model N100

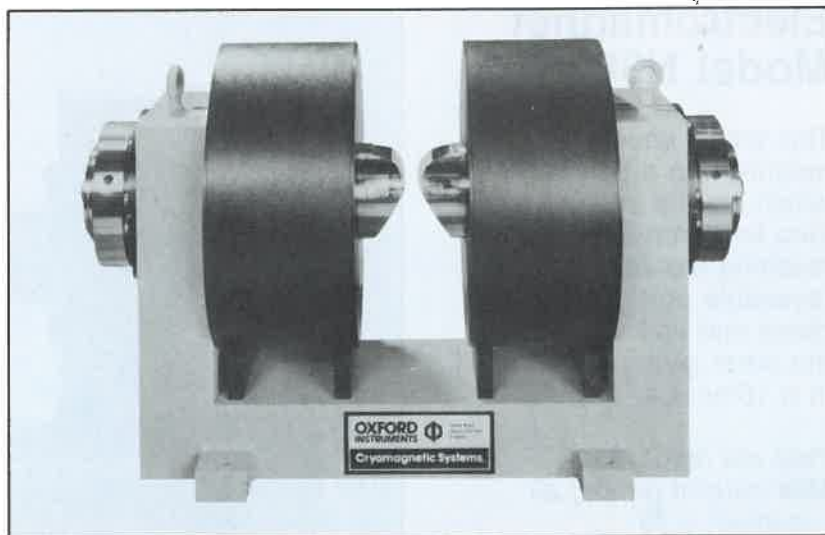
The pole gap on the N100 is screw adjustable between zero and 110mm giving a field of 1T in 20mm gap. A range of interchangeable pole pieces is available including plane, tapered, and Faraday.

*Pole dia (mm):* 100

*Max current (amps) air-cooled:* 7.5

*Max current (amps) water-cooled:* 15.0

*Cooling Water (litres/min):*  
22.5  
*(Bar):* 1.0



*Resistance max per coil ( $\Omega$ ):*

6.5

*Weight (kg):* 306

*Part No:* 010-004

## K154P POWER SUPPLY

This power supply can operate in both constant current or constant voltage mode. Maximum current 15 amps at 200 volts.

### SPECIFICATIONS

#### Constant Voltage Mode

*Regulation (Mains):*

$\pm 0.015\%$  for  $\pm 10\%$  mains changes

*Regulation (Load):* 0.015% or 5mV whichever is the greatest

*Ripple & Noise:* 3mV peak-to-peak

*Output Voltage:* Zero to maximum voltage of unit

*Output Current:* Zero to 100% output current of unit

*Protection:* Variable current limit control

#### Constant Current Mode

*Regulation (Mains):*

$\pm 0.015\%$  for  $\pm 10\%$  mains changes

*Regulation (Load):* 0.05% or 50% voltage change

*Ripple & Noise:* 0.05%

*Output Current:* 1% to 100% of output current of unit

*Output Voltage:* Zero to maximum output voltage of unit

*Protection:* Variable voltage limit control

*Temperature Coefficient:* 0.015% per  $^{\circ}\text{C}$

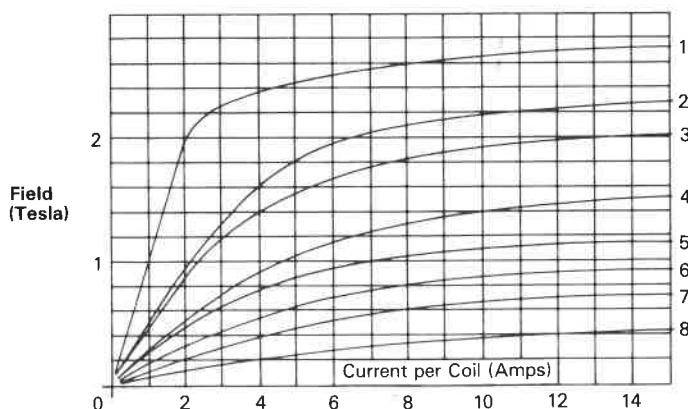
*Metering:* Voltmeter and ammeter

*Ambient operating temp:* 0 to  $+50^{\circ}\text{C}$

*Current stability:* 2 parts in  $10^4$  per hour

*Programme Input:* 0–5V gives 0–full current

*Part No:* 010-005



| CURVE NO. | POLE TIPS         | POLE GAP mm |
|-----------|-------------------|-------------|
| 1         | 38 mm face 45°    | 5.0         |
| 2         | 38 mm face 45°    | 10.0        |
| 3         | 58 mm face 45°    | 10.0        |
| 4         | 58 mm face 45°    | 20.0        |
| 5         | 100 mm face Plane | 20.0        |
| 6         | 100 mm face Plane | 30.0        |
| 7         | 100 mm face Plane | 50.0        |
| 8         | 100 mm face Plane | 100.0       |