



Hall Measurement System RH 2035

Specifications and part list

1. RH 2035 electronic case

Bench top case (310x205x90mm), main power **240 Volt**

Wight: 1Kg

including all electronic parts as:
current source and relais matrix,
voltage measurement facility,

USB interface

Specifications:

current source:

usable current range : 1nA - 10 mA

output voltage : +/- 10V (+/-20V)

output resistance : typical 10^{13} Ohms

max. current resolution : 25 pA

6 current ranges in factors of 10 (100nA - 10mA) each with 12 Bit resolution are used for controlling the output current.

The output voltage can be limited to a maximum voltage or power value.

voltage measurement facility:

usable voltage range : 10 μ V - 10V

resolution : < 1 μ V (typical 500nV)

input resistace : > 10^{13} Ohms

automatic range selection



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2. Magnet :

permanent Magnet
wight : **app. 2 Kg**
poletip diameter : **20 mm**
field @ 1cm poletip gap (air) : **0,6 T**
field polarity selection : **manual**
2 temperature sample stage

3. Software

1 CD with our Hall measurement software. 2 security hardlock keys
Requires a computersystem with CD-drive, printer and WIN NT or WIN 95 or WIN 98 or WIN 2000 or Win XPoperating system. **The computer system can be included on request.**

4. Spare part box

including all necessary cables and spare parts.

Typical Performance:

(theoretical limits of the electronic facilities)

Resistance : 1×10^{-3} Ohm - 1×10^8 Ohm

with 1 micrometer layer thickness:

Resistivity : 1×10^{-5} Ohm*cm - 1×10^7 Ohm*cm

Concentration : 10^7 cm⁻³ - 10^{20} cm⁻³

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