

Swin

We Sell Winner Solutions

Hall Effect Measurement System HALL 8800



Features:

- Ohmic contact check
- Large concentration and resistivity range
- Measurement offset compensation
- Flexible, modular hardware
- Simplicity and accuracy operation software
- Compact and easy-to-use desktop system

THINK SMART, THINK SWIN

Applications :

The Swin HALL 8800 Hall effect measurement system combines HALL effect measurement with van der pauw method four-point measurement to decide the characteristic such as resistivity ρ , carrier concentration N (N Type & P Type), and mobility μ of various material including Si, Ge, SiGe, SiC, GaAs, InGaAs, InP, GaN, ZnO, Graphene etc. at both 300K and 77K for scientific research, education, production applications.

Specifications :

- Sample size: 10 mm x 10 mm ~ 15 mm x 15 mm
- Measurement Temperature: RT (room temperature ~ 300K) and 77 K
- Measurement Material: Material such as Si, SiGe, SiC, GaAs, InGaAs, InP, GaN, ZnO, Graphene etc..
- Magnet : Permanent magnet (diameter: 30 mm)
- Magnet Flux Density: 0.48T ~ 1T(depends on application)
- Stability: 2% over 1 years
- Uniformity: +/- 1% over 20 mm diameter from center
- Resistivity: $10^{-5} \sim 10^7$ (Ω -cm)
- Mobility: $1 \sim 10^7$ ($\text{cm}^2 / \text{Volt-sec}$)
- Carrier Concentration: $10^7 \sim 10^{21}$ (cm^{-3}) (N Type & P Type)
- Output current: 2nA ~ 100mA
- Input Voltage: 1 μ V ~300V
- Dimensions (L/W/H) : 400 mm x 360 mm x 200 mm
- Weight : 12 kgw (with package)



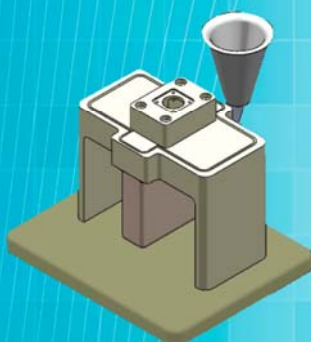
*Sample board
(Spring clip structure)*



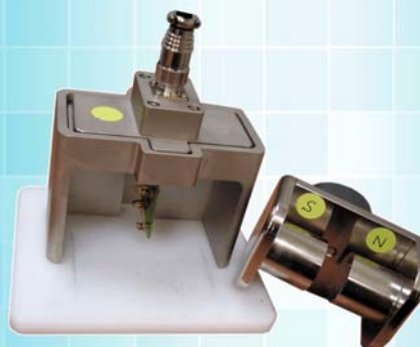
For mounting thin samples



For mounting thicker samples



*Room temperature & 77K
measurement kit*



*Room temperature
measurement kit*

Represented By:



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飛白技術服務股份有限公司

Super Solutions & Services Co., Ltd.

No.25, Bada Road, Hsinchu, Taiwan, R.O.C.

TEL : 886-3-562-1234 FAX : 886-3-561-3839

E-Mail : super@3-s.com.tw <http://www.3-s.com.tw>