

Proven Qualified

40 Years



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AWgage-150/200 Thin Film Sheet Resistance Measurement



Proven Qualified

Giant Fabs/Labs

- Universities
- Institutes
- Companies
- IC
- MEMS
- Biomedical
- Nanotechnology
- Sensors
- Solar
- LED
- ...

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Proven Qualified

Originated From

The Popular

Thin Film Sheet Resistance

Measurement Instrument

in 80's,90's

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Advanced Technologies

Non-Contact



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Eddy Current Measurement



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Advanced Technologies

PC Control and Touch Screen Monitor



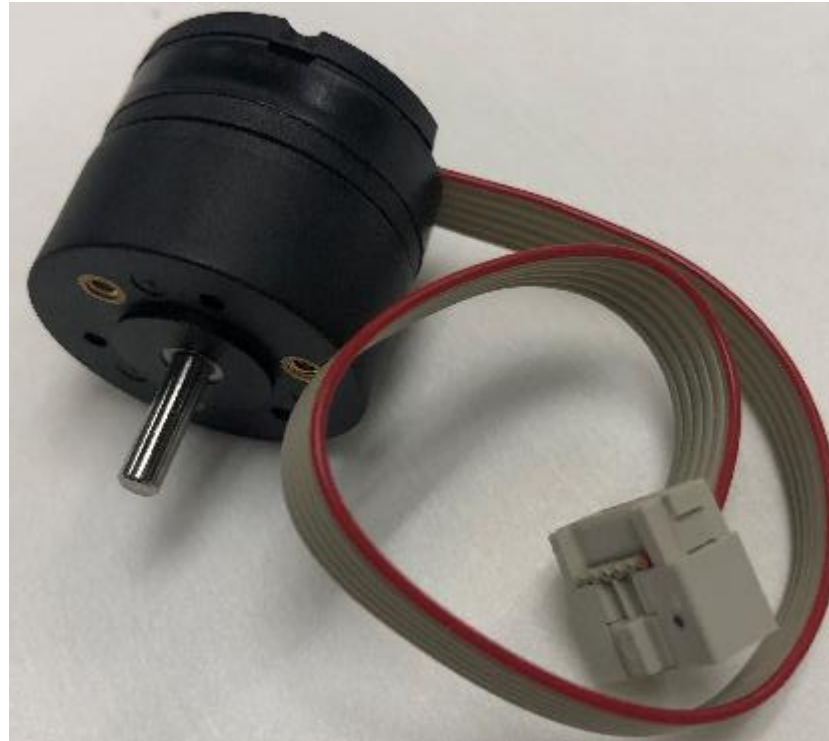
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Encoder Step Motor



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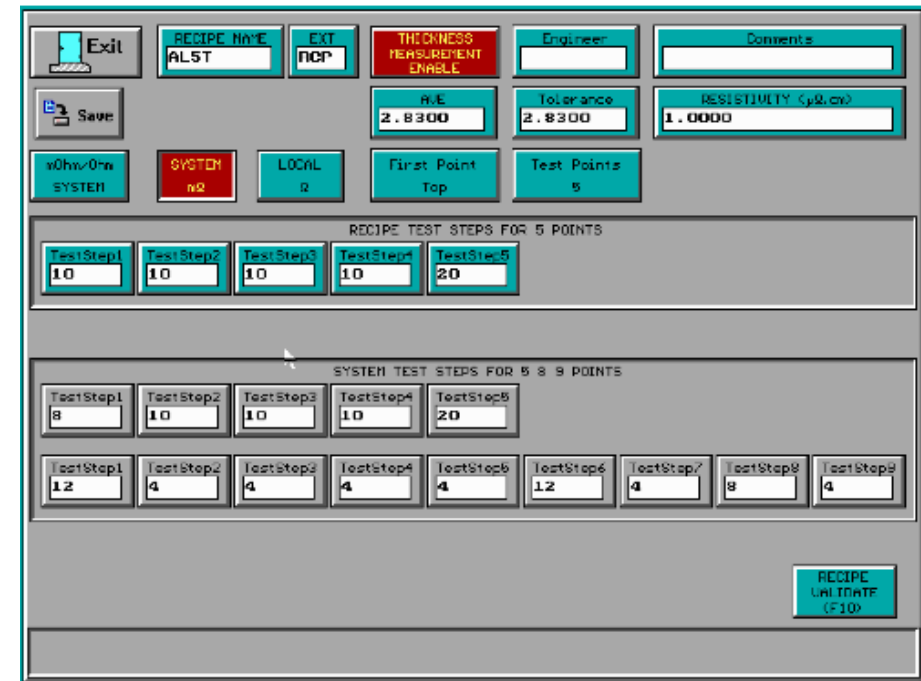
Advanced Technologies

Proprietary Allwin21 Algorithm&Control

Main Menu



Recipe Edit



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Advanced Technologies

Proprietary Allwin21 Algorithm&Control

Calibration

The Calibration screen is divided into several sections:

- Control Buttons:** Exit, Help, MOTOR LEFT, MOTOR ROTATE, MOTOR RIGHT, MOTOR HOME, STEP NUM (12), STEP POS (0), and a red 'm0' button.
- READING ON THE COMPUTER for Ohm(Ω):** U.N. IFR (3.3368), SR Raw (0.000), SR Cali (0.000). Includes RECORD buttons for RAU 1-4 and UNIT 1-4 (0.120, 2.256, 9.928, 28.36).
- READING ON THE COMPUTER for mΩ(mΩ):** VOLTAGE NO HAFER (0.1442), SR Raw (6.935), SR Cali (164.5). Includes RECORD buttons for RAU 1-4 and UNIT 1-4 (0.213, 0.710, 2.348, 8.350).
- SYSTEM DATA:** T.N. IFR (0.3564), VOLTAGE (0.0000), FACTOR (0.000).
- READING ON THE STANDARD for Ohm(Ω):** Rec 1 (4.860), Rec 2 (86.00), Rec 3 (396.0), Rec 4 (1192.0).
- READING ON THE STANDARD for mΩ(mΩ):** Rec 1 (6.600), Rec 2 (22.70), Rec 3 (65.60), Rec 4 (195.0).
- CALIBRATION FACTORS for Ohm(Ω):** UPDATE SR1 CALIB FACTORS, CALIB Num (4), RESET SR1 CALIBRATION FACTORS. Values for k1, b1, k2, b2, k3, b3.
- CALIBRATION FACTORS for mΩ(mΩ):** UPDATE SR2 CALIBRATION FACTORS, CALIB Num (4), RESET SR2 CALIBRATION FACTORS. Values for k1, b1, k2, b2, k3, b3.

Process for Engineer

The Process for Engineer screen features several panels:

- Control Buttons:** Exit, Help, MOTOR HOME (with a red 'm0' button), DATA PRINT MANUAL, Motor No (17), WATER NUMBER AUTO, DISPLAY LAST DATA, START SINGLE TEST, TEST DATA DISPLAY, TRANSFER TO TEXT FILE, START TEST, and REC'DE EDIT.
- Directory 1 files:** 2019.08, 2019.00.
- Lot ID 1 files:** 20200625, 20200625.
- Step ID 1 files:** 200625AL, 200625AL, 2008021, 2008023.
- Data ID 204 files:** AL5L.001, AL5L.001, AL5L.002, AL5L.003, AL5L.004, AL5L.005, ALSA.001, ALSA.002, ALSA.003, ALSA.004, AL5T.001, AL5T.002.
- Recipe File 10 files:** AL5T.RCP, ALS.RCP, ALSB.RCP, ALSL.RCP, ALSR.RCP, AL5T.RCP, ALS.RCP, ALSA.003.RCP, ALSA.004.RCP, AL5T.001.RCP, STD396.RCP.

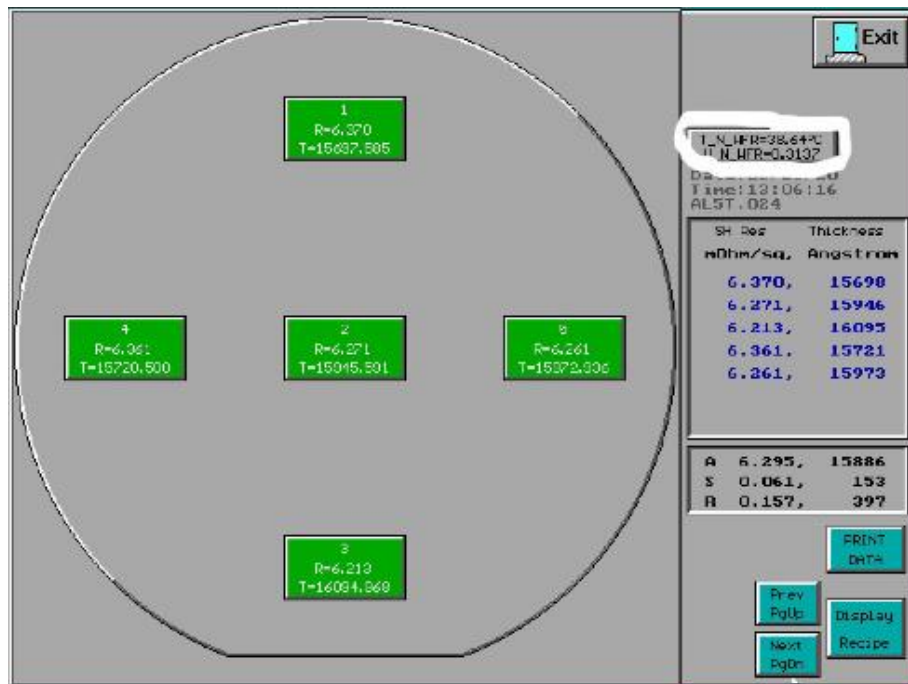
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Proprietary Allwin21 Algorithm&Control

Head Temperature Sensor/Mapping



Factory Set Up

Exit Save

FACTORY LEVEL SET UP CUSTOMER LEVEL SET UP PRODUCTION FULL FUNCTION DISABLE

Recipe File Up to 10 chars DISABLE

System Name AW-16400 3.1 LEVEL SET UP DISABLE Thick unit A Water Num 090 Spin D.V(sec) 2.0

Screen Saver DISABLE RS 232 CONFIGURE DISABLE CUSTOM POINTS 3 Water Tot Num 898 nChar/Onn AD 3 Spin D.V(sec) 3.0

Manual Ctrl Vendor Only DISABLE Spin D.V(sec) 4.0

Swal Font DISABLE ROT Speed(%) 50.0 ROTATE MOTOR NEW TYPE No Water D.V(sec) 0.0100

Data Upload (RS232) DISABLE LEFT Speed(%) 80.0 Measure Wait(sec) 3.0

GEN SECS II DISABLE RIGHT Speed(%) 90.0 CARRIAGE MOTOR NEW TYPE

AUTO CYCLE DISABLE

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Small Footprint

- **44 LBs**
- **11(W) X 18 X 22 (H) Inch**



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Configurations and Specifications

Wafer Size:

- 2",3",4",5",6"-**AWgage-150**
- 3",4",5",6",8"-**AWgage-200**



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Configurations and Specifications

Test Sights:

- **1/5/9 Points**



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Configurations and Specifications

Measurement Range Capability:

- 1m Ω /square to 19,990 Ω /square



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Configurations and Specifications

Repeatability:

- $\pm 1\sim 6\%$
- **Measurement Range Dependent**

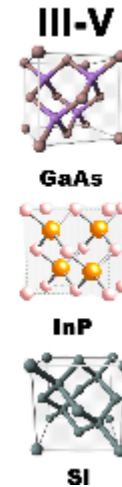


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