



# **Automatic Densimeter DSG-1**

Model 21-10

The 21-10 Automatic Densimeter DSG-1 is a high precision instrument that offers accurate, simple operation in almost any laboratory environment. An electronic balance determines specific gravity of rubber, plastic, ceramic, and various other materials with the single push of a button. Specific gravity of the sample can be directly read on the indicator screen simply and easily.

An optional attachment allows measurement of the specific gravity of liquids or the rate of change of volume for rubber and other materials.



#### **Features**

- Measures specific gravity of a wide range of substances
- Only about 20 seconds required to measure one sample
- Simple operation mount sample, push start button, dismount sample
- Distilled water is used as the standard liquid, but other liquids can be used depending on test requirements
- Many attachments available for versatility in testing

#### **Standards**

JIS Z 8807 (1976, 2012), JIS K 7112 (1980, 1999)... Plastic, ISO 1183-1 (2012)

### **Options**

Description	Model
Set of following optional functions (Firmw	are upgrade)
1) Volume (Solid)	
2) Rate of change of volume (Solid)	
3) Rate of change of weight (Solid)	
4) Expansion rate (Solid)	
5) Liquid density (Optional clamp is also re	equired)
Automatic input of water density	
(temperature sensor) for standard beaker	AT-L1

Automatic input of water density (temperature sensor) for standard beaker	AT-L1
Automatic input of water density (temperature sensor) for double-wall beaker	AT-L2
Automatic input of air density (Temperature sensor)	AT-A1
Closed loop chiller	T2
Open type thermostatic (double-wall) beaker (for closed loop chiller)	B20P1
Closed type thermostatic (double-wall) beaker (for open loop chiller)	B20P2
Mini thermal printer	PRT
Thermal paper for mini thermal printer	P-58-30
RS-232C cable	RS-1
RS-232C cable + USB conversion adapter	RS-2
Turn over prevention metal fitting	BRA

#### **Instrument Size**

Description	Model
Pierce clamp (standard)	1-d
Ohm clamp without weight (standard)	2-a
Ohm clamp with weight	2-d
Clip type clamp	3-a

### **Contact Details**

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## **Technical Specification**

Minimum readout  0.0001g (0.1mg)  Specific gravity (density) minimum display  0.000001 [0.000001g/cm³] (Possible to change the unit as kg/m³)  Volume minimum display  0.0001cm³ (possible to change the unit as m³)  Operation panel  4.7 inch LCD touch panel  Beaker lifting mechanism  Motorized direct-drive actuator Stroke: 100mm Variable speed: 10, 20, 30mm/sec Variable stop position (lower side): 0, 10, 20mm Variable stop position (upper side): 100, 90, 80mm Measurement item (standard) Solid density  Measurement items (option)  1) Volume (Solid) 2) Rate of change of volume (Solid) 3) Rate of change of weight (Solid) 4) Expansion rate (Solid) 5) Liquid density (optional clamp is also required)  Data saving capacity  100 data per lot x 200 lot (however up to 1000 data)  Interface  RS-232 x 1  Standard accessories  1) Pierce type clamp, model 1-d x 1 2) Ohm type clamp, model 2-a x 3 3) Standard baker Ø90 x 120(H)mm (made of polymethylpentene, PMP) x 1		
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Power supply Single-phase, AC100V~240V, 50/60Hz, 0.1kVA	Standard accessories	2) Ohm type clamp, model 2-a x 3
	Power supply	Single-phase, AC100V~240V, 50/60Hz, 0.1kVA

## **Weights & Dimensions**

Net Weight (kg)	30	
Width (mm)	290	
Depth (mm)	443	
Height (mm)	865	

### **Standards**

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