
DPSH Series

High Capacity Popular Model Digital Force Gauge (with output)



[Applications]

Strength tests for various materials (tension test, compression test, shearing test, etc.)

Measuring of attraction/repulsion force of solenoid or magnet.

Adhesion test of laminated tubes

[Feature]

-Digital display of tension and compression forces

-Peak hold function (capable of holding maximum force value) is installed for all models as the standard feature.

-Measuring units (kgf, N, lb) are selectable.

-The display will flash when overload or low-battery condition is detected.

-The special handle bar is attached to obtain the stable and large applied pressure.

-“R” type (reversed operation panel), which is suitable for measuring on the stand, is available.

[DPSH Series specifications]

Model	DPSH Series (with output)
Measuring units	Kg, N, lb / g, N, oz (Selectable)
Display features	Track and peak mode (Selectable)
Display	4 digits LCD, Units, Mode, Warning
Measurement time	20 times / second
Display update	20 times / second
Overload capacity	200% of F.S. (Alarm flash beyond 105%)
A/D converter	14bit delta sigma System
CPU	8bit one-chip microprocessor
Accuracy	+/-0.2% of F.S., +/-1 digit
Battery use time	8 hours of continuous operation
Operating temperature range	0 ~ +40 degree Celsius
Power supply	Rechargeable NiCd battery pack (4pcs) or AC adapter
Weight	About 1250 g
Output	Digital (Serial: RS232C) Mitutoyo Digimatic Analog (+/-1 V F.S.)
Accessories	6 attachments Handles Force gauge mounting bolts AC adapter (100V, 120V, 230V available) Note 1) Carrying case

Note 1)

Since commercial power supply voltage varies in the area where the gauge is used, three types of voltage adapters are available. Please specify the confirmed voltage for the commercial power supply when you order.

[DPSH Series Model Type]

1. Standard Type Specification

Model	Capacity	Display	Resolution
DPSH-100	980N (100 kgf)	980.7N (100.0 kg)	0.1N (10 gf)
DPSH-200	1960N (200 kgf)	1961N (200.0 kg)	1N (100 gf)
DPSH-500	4900N (500 kgf)	4903N (500.0 kg)	1N(100 gf)

2. R Type Specification (Reverse type) Note 2)

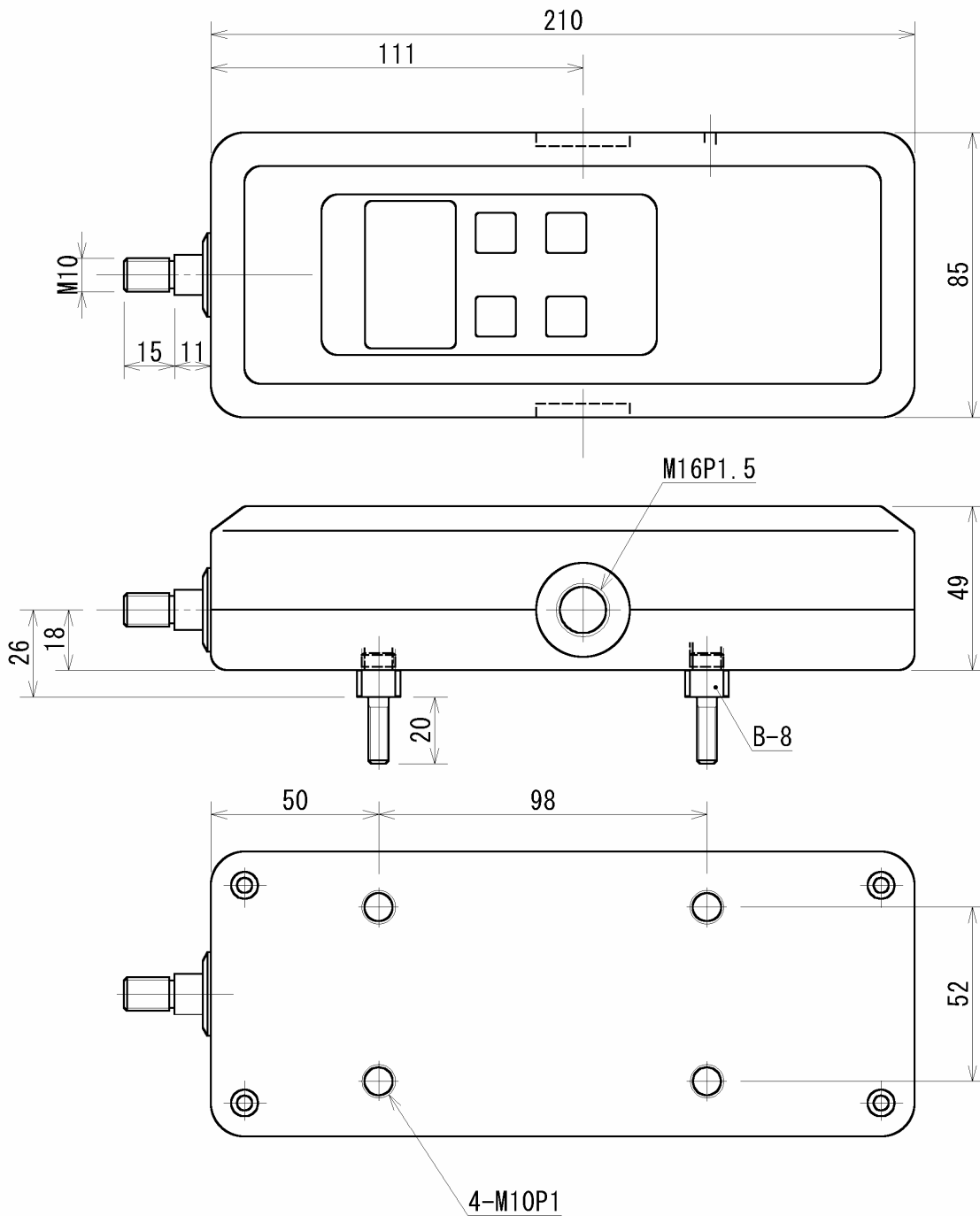
Model	Capacity	Display	Resolution
DPSH-100R	980N (100 kgf)	980.7N (100.0 kg)	0.1N (10 gf)
DPSH-200R	1960N (200 kgf)	1961N (200.0 kg)	1N (100 gf)
DPSH-500R	4900N (500 kgf)	4903N (500.0 kg)	1N (100 gf)

Note 2)

R type (reversed type) specification is the reversed operation panel type attached to the standard type to read the displayed readings correctly on LCD or the panel display when the measuring axis faces downward (the upside-down condition).

[Dimension]

DPSH series



[Note]

- *Do not apply excess force, torque, or impact on the measuring axis regardless to the power is on/off.
- *Do not use the gauge under the condition of the rapid temperature changes, high temperature, high humidity, near water and dusty place.
- *Keep the gauge in the exclusive carrying case when it is not used.
- *The use of the test stand made by Imada is recommended for the stable measuring result.
- *All information is subject to change without prior notice.