

DPS Series

Popular Model Digital Force Gauge (with output)



[Application]

- Measuring of the strength of electronic parts bonding or soldering
- Measuring of contact press for touch panel or keyboard
- Measuring of push / pull force for connector pin or slide cap
- Pull testing of pull top can or noodle container lid

[Feature]

- Digital display of tension and compression forces
- Peak hold function (capable of holding maximum load value) is installed for all models as the standard feature.
- Measuring units (kg, N, lb) are selectable.
- The display will flash when overload or low-battery condition is detected.
- “R” type (reversed operation panel), which is suitable for measuring on the stand, is available.

[DPS Series specifications]

Model	DPS 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	~4.9N (500gf): 150% of F.S. (Alarm flash beyond 105%) 19.6N (2kgf) ~ : 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.
Battery use time	8 hours of continuous operation
Operating temperature range	0 ~ + 40 degree Celsius
Power supply	Rechargeable NiCad battery pack (4pcs) or AC adapter
Weight	About 420 g
Output	Digital (Serial: RS232C) Mitsutoyo Digimatic Analog (+/- 1 V F.S.)
Accessory	6 attachments 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.

[DPS Series Model Type]

1. Standard Type available models

Model	Capacity	Display	Resolution
DPS-0.25	2.4N (250 gf)	2.450N (250.0 g)	0.001N (0.1 gf)
DPS-0.5	4.9N (500 gf)	4.900N (500.0 g)	0.001N (0.1 gf)
DPS-2	19.6N (2 kgf)	19.60N (2.000 kg)	0.01N (1 gf)
DPS-5	49N (5 kgf)	49.00N (5.000 kg)	0.01N (1 gf)
DPS-20	196N (20 kgf)	196.0N (20.00 kg)	0.1N (10 gf)
DPS-50	490N (50 kgf)	490.0N (50.00 kg)	0.1N (10 gf)
DPS-100	980N (100 kgf)	980.0N (100.0 kg)	0.1N (10 gf)

2. R Type available models (Reverse type) Note 2)

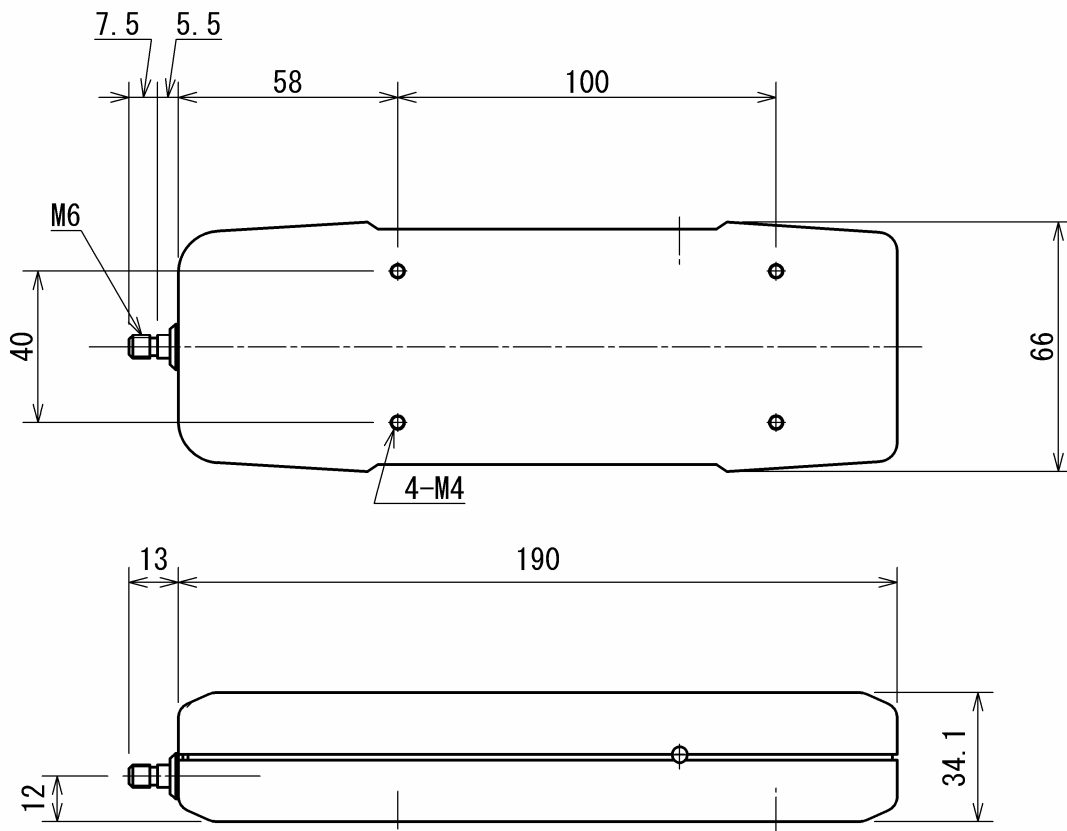
Model	Capacity	Display	Resolution
DPS-0.25R	2.4N (250 gf)	2.450N (250.0 g)	0.001N (0.1 gf)
DPS-0.5R	4.9N (500 gf)	4.900N (500.0 g)	0.001N (0.1 gf)
DPS-2R	19.6N (2 kgf)	19.60N (2.000 kg)	0.01N (1 gf)
DPS-5R	49N (5 kgf)	49.00N (5.000 kg)	0.01N (1 gf)
DPS-20R	196N (20 kgf)	196.0N (20.00 kg)	0.1N (10 gf)
DPS-50R	490N (50 kgf)	490.0N (50.00 kg)	0.1N (10 gf)
DPS-100R	980N (100 kgf)	980.0N (100.0 kg)	0.1N (10 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]

DPS series



[Precautions]

- *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.