

Hand Held Torque Gauge

HTG series

Hand held torque gauge



HTG-2N,5N



HTG-10N



Optional sensor tips

[Applications]

1. Both squeeze and return torque measurement of screws or bolts
2. Destructive examination and strength check of a screws or bolts
3. Torque measurement of rotary switch
4. Rotation resistance of motor axis



[Features]

1. Bearing support of a measurement axis is adopted, and the reliability of measurement increased.
2. Peak hold function
3. Comparator function which can program Hi/Lo set point., and memory function.
4. Overload warning by flashing LED
5. It is PC connectable through RS-232C and programable
6. Selectable three units (N·m, Kgf·m, and lb·in)

[Specifications]

Measuring Units	N·m, kgf·m, or lb·in selectable (*1)	
Display	4 digit LCD	
Measuring time	30 times per second	
Display update	10 times per second	
Capacity	150% F.S. (LED will flash at 110% of F.S.)	
Measuring tip	0.5~6.5mm diameter pin chuck (*2)	
A/D converter	16bit delta sigma	
CPU	8bit 1 chip microprocessor	
Accuracy	+/- 0.5%F.S +/-1 digit	
Battery use time	Approx. continuation 8 hours with full charge	
Temperature range	0~+40 degree Celsius	
Power	Rechargeable NiCad battery pack (4pcs) or AC adapter	
Dimension	See dimensions	
Weight	Display	Approx. 410g
	Sensor	HTG-2N,5N:approx. 530g HTG-10N:approx. 600g
Output	Digital(serial:RS232C) Mitutoyo Digimatic Analog (approx. +/-2VF.S) Comparator output signal(open collector MAX30V10mA) Overload output signal (open collector MAX30V10mA)	
Comparator function	Color coded LED indicates below, within, or above set point value	
Memory function	Up to 960 measurement values	
External switch	Data hold, remote zero rest	
Overload prevention LED	Over load LED flash beyond 110%	
Standard accessories	AC adapter (*3) Sensor cable : 35cm Carrying case Handles (only for HTG-10N model)	

(*1) The measured value change to N·cm is possible as an option. Please look at “Measured value display” for details.

(*2) Change of measuring tip is possible as an option. Please look at “Measuring tip” for details.

(*3) Since commercial power supply voltage is varied in the area, three types (100V, 120V, 230V) of voltage adapters are available. Please specify the confirmed voltage for the commercial power supply when you order.

[Available models]

Model	Capacity	Display	Resolution
HTG-2N	2N·m(200gf·m)	2.000N·m(200.0gf·m)	0.001N·m(0.1gf·m)
HTG-5N	5N·m(500gf·m)	5.000N·m(500.0gf·m)	0.001N·m(0.1gf·m)
HTG-10N	10N·m(1kgf·m)	10.00N·m(1.000kgf·m)	0.01N·m(0.001kgf·m)

[Measured value display]

In HTG series, the measured unit change to N·cm is possible. (However, the unit mark of a display displays as only N.) Please place an order for change to N·cm by the following model name.

Model	Capacity	Display	Resolution
HTG-200Nc	200N·cm(20kgf·cm)	200.0(20.00kgf)	0.1N·cm(0.01kgf·cm)
HTG-500Nc	500N·cm(50kgf·cm)	500.0N(50.00kgf)	0.1N·cm(0.01kgf·cm)
HTG-1000Nc	1000N·cm(100kgf·cm)	1000N(100.0kgf)	1N·cm(0.1kgf·cm)

[Measuring tip]

In HTG series, change of measuring tip is available. Please attach the number of the following table to a form end, and place an order with it.

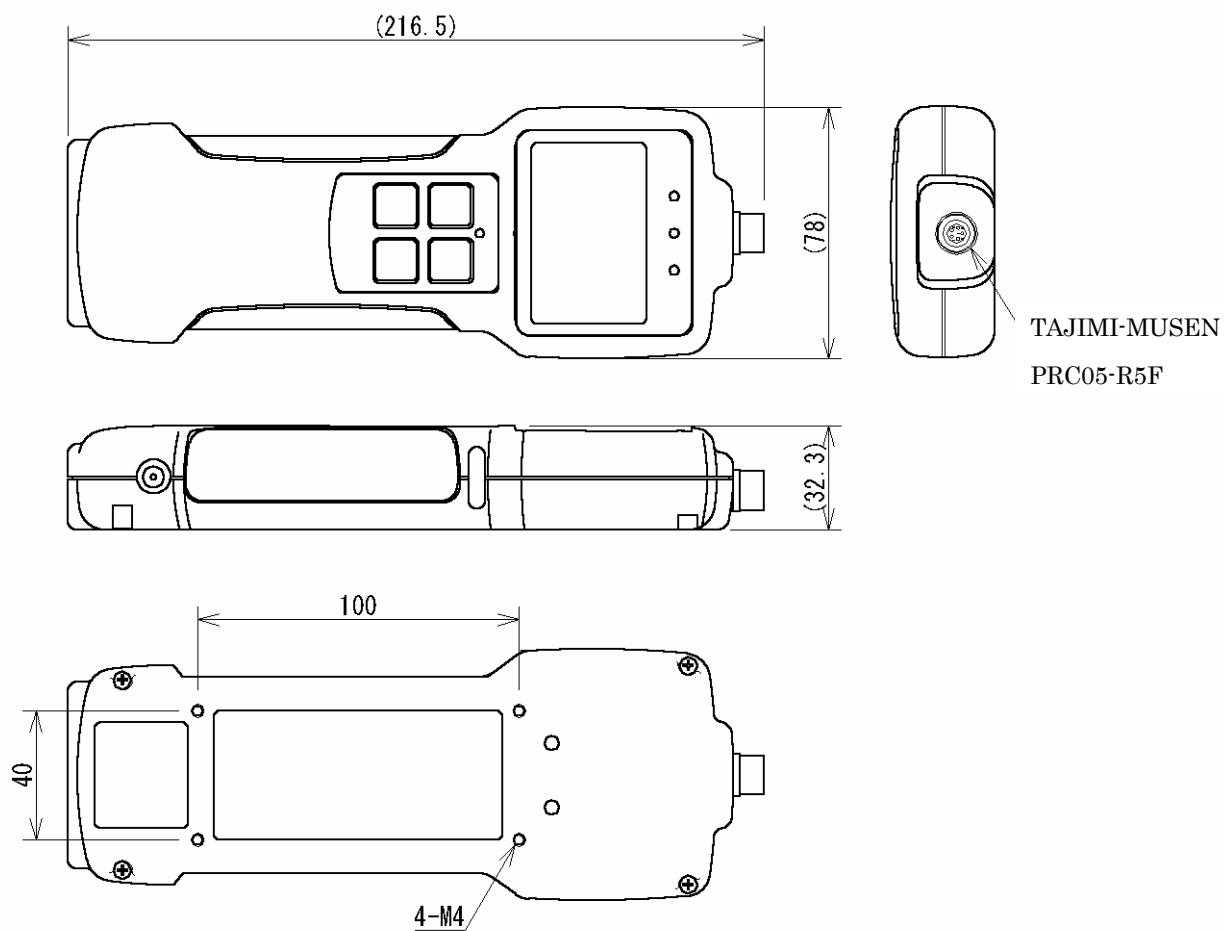
Suffix	Model	Description	Shape	Weight
1	TA-01	Square snap on socket	9.5mm square snap on socket	Approx.100g
2	TA-02	Torque Driver	Includes screw driver tips + : No.1x50mm + : No.2x50mm - : 6.3x50mm	Approx.100g
3	TA-03	Large pin chuck	1.2~13 diameter pin chuck	Approx.100g

Example)

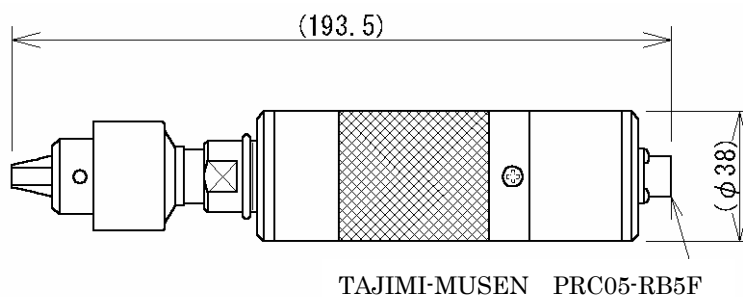
When you choose TA-01 as sensor tip,

————→ HTG-2N-1

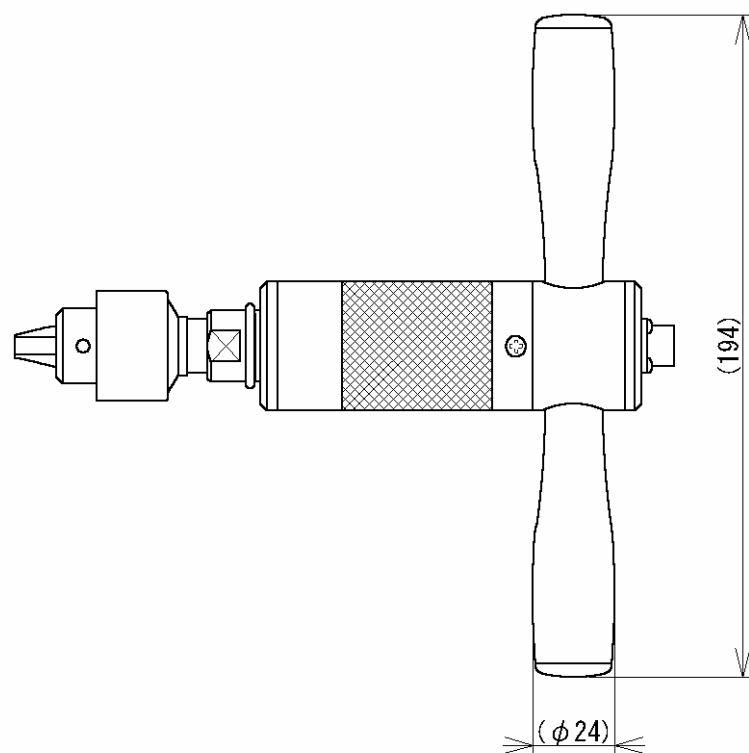
[Dimension]
HTG series
(Display)



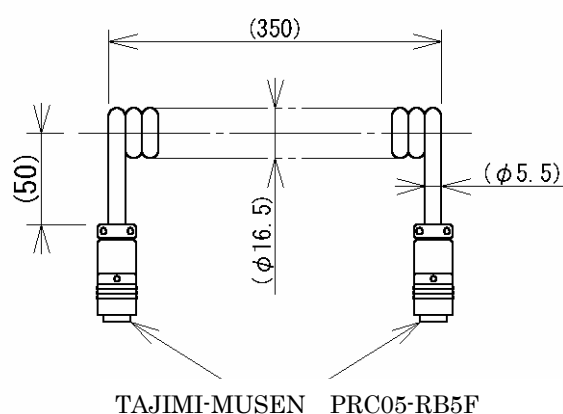
(Sensor)
HTG-2N,5N



HTG-10N



(Sensor cable)



[Note]

- Do not apply excess torque, force, 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.