

3. MEASURING TOOLS and EQUIPMENT

GAUGES



CAUTION

Gauges

- Make sure that you read the Owner's Operator Manual carefully before using the gauges.
- Do not use in areas with high levels of humidity or dust. Damage may occur if the gauges come into direct contact with water or oil.
- Look at the gauge straight on when taking readings.
- Do not use gasoline or thinners for cleaning purposes. These agents could damage the shape of the gauge.

- Do not use the gauge outside its designated usage.
- The precision of the gauge will need to be checked if it has been dropped, is cracked, or has been used in a rough manner.

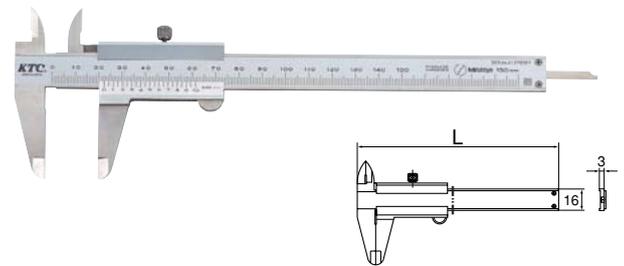
SLIDE GAUGE

No.	Measuring Range	L	▼g	☑
GMN -15	0~150	230	150	1
-20	0~200	290	180	1
-30	0~300	405	355	1

- Long vernier for easy reading.
- Stepped surface for avoiding entry of dust, etc.

*Replacement parts are available. Check with your dealer for details.

●SLIDE GAUGE



DIGI-PRO® SLIDE GAUGE

No.	Range	Minimal indication	Precision	Battery life	Battery	L	▼g	☑
GDN-15	0~150	0.1	±0.2	Approx. 2 years	SR44	230	140	1

- The measurement is displayed digitally in 0.1mm unit for easy reading.
- Four measurements are possible (inner & outer diameters, depth and step).
- A long vernier scale with zero point adjustment function is adopted.

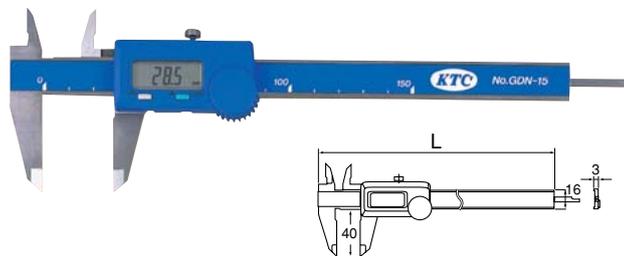
*Battery cell replacements are available. Check with your dealer for details.

It is possible to measure the pad alone.

① The steel plate of the brake pad to make zero adjustment.

② Measure the whole thickness of the pad. The thickness of the pad will be displayed.

●DIGI-PRO® SLIDE GAUGE



*DIGI-PRO® is the registered trademark of KYOTO TOOL CO., LTD.

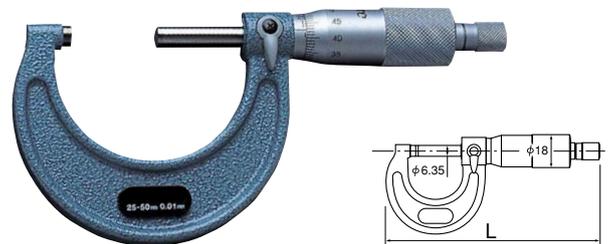
MICROMETER

No.	Measuring Range	L	▼g	☑
GMM-025	0~25	120	160	1
-050	25~50	145	215	1
-075	50~75	175	315	1

- Painted frame for rust resistance.
- Super hand alloy tip attached.
- With constant pressure device.

*Replacement parts are available. Check with your dealer for details.

●MICROMETER



DIGI-PRO® DEPTH GAUGE

No.	Range	Minimal indication	Precision	Battery life	Battery	L	▼g	☑
GDT-25	0~25	0.1	±0.2	Approx. 2 years	SR44	83	40	1

- Most suitable for measuring the groove depth of the tires (four-wheel and two-wheel vehicles).
- With a compact body, the gauge can be used even in the tire housing.
- The measurement is displayed digitally in 0.1mm unit for easy reading.

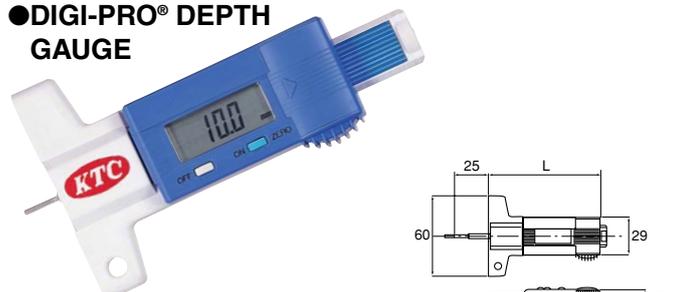
*Battery cell replacements are specified. Check with your dealer for details.

Reference: Required minimal groove depth of tires unit : mm

Tire types	Passenger cars and light trucks	Pickup trucks	Trucks and buses	Motorcycles
Minimal depth	1.6	2.4	3.2	0.8

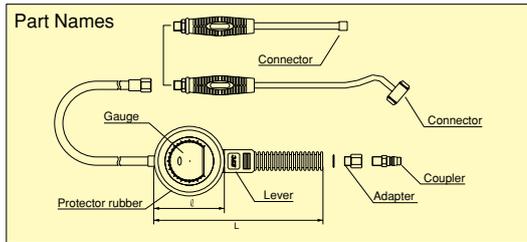
• Based on Road Trucking Vehicle Law

●DIGI-PRO® DEPTH GAUGE



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● TIRE AIR GAUGE



TIRE AIR GAUGE

No.	Measuring range	Minimal scale	Thickness	ℓ	L	▼g	📦
AGT231	0~ 500kPa (0~ 5kg/cm ²)	10kPa	95	100	270	800	1
AGT232	0~1200kPa (0~12kg/cm ²)	10kPa	95	100	270	800	1

Purpose

● To measure, increase and decrease the air pressure of automobile tires.

Application

- Tire Air Gauge 500: Passenger cars and commercial cars (vans).
- Tire Air Gauge 1200: Motorcycles, passenger cars, trucks and buses.

Features

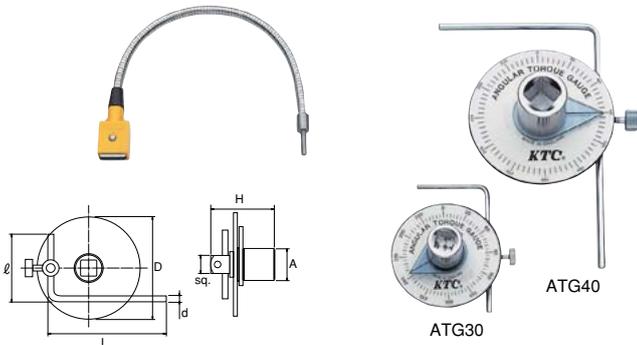
- The lever is lightweight for fine adjustments with ease.
- The gauge is large (ø70mm) and easy to read measurements. The pressure can be measured and decreased without connection to the air hose.
- With the swivel joint, the hose is not easily twisted.
- The ultra thin straight connector on the tip (the tip is 11mm diameter) enables use for almost all aluminum wheels (AGT231).
- The long type double connector facilitates use for double tires (AGT232).
- The connector on the tip is replaceable (option).

*Replacement parts are available. Check with your dealer for details.

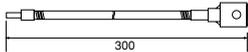
The connectors for replacement:

Connectors	Product No.
Straight connector 	AGT23-A1
Double connector 	AGT23-A2
Clip connector 	AGT23-A3

● ANGULAR TORQUE GAUGE



Flexible stopper (Compatible with both the ATG30, 40 models)



CAUTION * Do not tighten with a torque wrench when using this product. Torque limits may be exceeded and cause damage to the torque wrench.

ANGULAR TORQUE GAUGE

No.	sq.	A	H	D	L	ℓ	d	▼g	📦
ATG30	12.7	24.2	55	78.5	97	52	4.8	365	10
ATG40	19.0	34.5	76	105.5	190	120	6.4	700	10

Usage

● For the purpose of setting the tightening angle (of degrees) of bolts. (Bolts that are to be tightened to degrees after torque settings applied.)

Characteristics

- Because the gauge measures in small 5° units, it can be used in many ways and on a variety of different manufacturers' engines. (The gauge can be used not only on domestic vehicles, but also on foreign vehicles made outside of Japan.)
- An effective flexible stopper is fitted for when locking is not possible by the L shaped stopper.

How to use the gauge:

1. Fasten the head bolt with the specified torque.

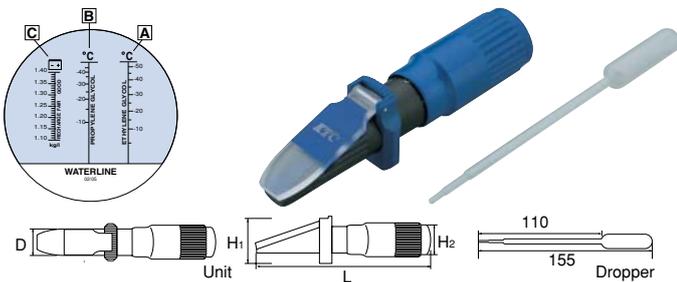


2. Set the angle torque gauge and fix it with the L-stopper or the flexible stopper.

3. Set the hand of the gauge to zero.

4. Fasten it to the specified angle with the spinner handle.

● FLUID TESTER



FLUID TESTER

No.	D	H ₁	H ₂	L	▼g	📦
AG601	25	40	32	150	150	1

● Attachments: Dropper for Liquid Measurements, Soft Storage Case (Cloth)

Usage

- Measuring coolants freezing temperature (LLC) (Scale "A" · "B")
- Measuring the relative density of battery electrolyte (Scale "C")

Characteristics

● Measurements can be made simply by dropping liquid on a prism surface and looking through the lens.

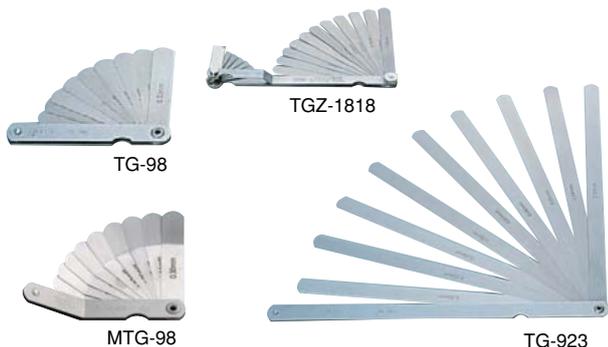
Measurable Range

- Coolant (LLC) ··· Ethylene: 0~ -55°C Scale ("A")
- Propylene: 0~ -50°C Scale ("B")

Battery fluid ··· 1.10~1.40kg/l (minimum scale of 0.01kg/l)

*Replacement parts are available. Check with your dealer for details.

● THICKNESS GAUGE



THICKNESS GAUGE

No. TG-98	▼g 34	📦 10
90×13 9pcs. set (mm)	.04 .05 .06 .07 .08 .10 .15 .20 .30	

No. TG-923	▼g 79	📦 10
230×13 9pcs. set (mm)	.04 .05 .06 .07 .08 .10 .15 .20 .30	

No. TGB-98	▼g 34	📦 10
90×13 9pcs. set (in)	.0015 .002 .003 .004 .006 .008 .010 .012 .015	

No. TGB-923	▼g 79	📦 10
230×13 9pcs. set (in)	.0015 .002 .003 .004 .006 .008 .010 .012 .015	

No. MTG-98 (With angle)	▼g 34	📦 10
90×13 9pcs. set (mm)	.04 .05 .06 .07 .08 .10 .15 .20 .30	

No. TGZ-1818 (Maintenance Gauge Set)	▼g 100	📦 10
For valve clearance 11pcs. set (mm)	.15 .18 .20 .25 .28 .30 .33 .35 .36 .38 .40	
For point plug 6pcs. set (mm)	.45 .50 .80 .90 1.10 1.30	
Hook for adjusting plug 1pce.		