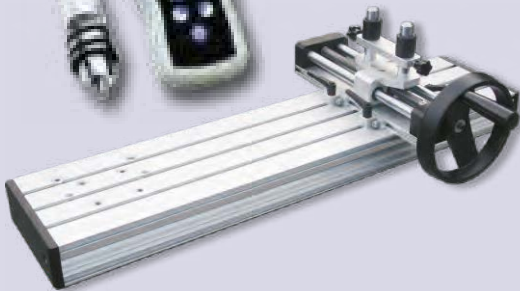


TORQUE

Measurement



BOLTEK



BOLTEK



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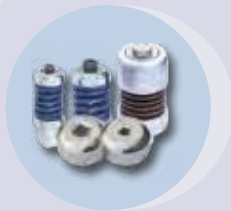
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Features

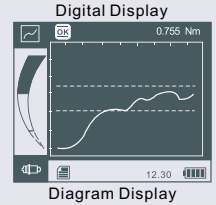
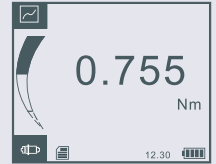
- Accuracy: $\pm 0.3\%$ FS
- Ergonomic, durable, heavy-duty metal construction
- Touch Pad
- Automatic reversible display
- Automatic load cell identification (ALI)
- Units: N·m, N·cm, kgf·cm, lbf·ft, lbf·in
- Display Mode: Digital/Diagram
- Connect to PC easily
- Printing: Mini Printer(data printing /diagram printing)

Models

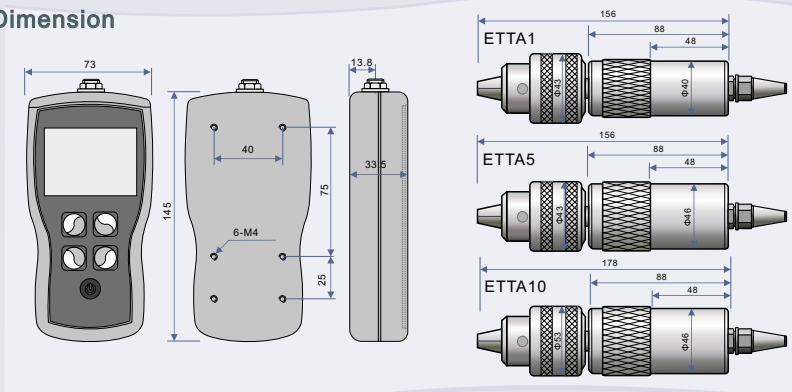
Model	Capacity/Resolution					Drill Chuck
	N.m	N.cm	kgf.cm	lbf.ft	lbf.in	
ETTA1	1/0.001	100/0.1	10/0.01	-	8.9/0.005	1-10mm
ETTA5	5/0.001	500/0.1	50/0.01	3.68/0.001	44.3/0.01	
ETTA10	10/0.01	1000/1	100/0.1	7.38/0.001	88.5/0.01	2-13mm

Specifications

Accuracy	$\pm 0.3\%$ F.S.	Sensor	Rated Output	1.5-2.0mV/V
Unit	N·m, N·cm, kgf·cm, lbf·ft, lbf·in (Selectable)		Zero Balance	$\pm 2.0\%$ F.S.
Display	160*128 dot matrix LCD with Backlight		Non-linearity	0.03-0.05% F.S.
Overload	120% F.S.		Hysteresis	
Display Mode	Data/Diagram		Creep [30min]	0.05% F.S./10°C
Measuring Mode	Track, Peak, FirstPeak, Preset		Temp. Effect	
Sampling Rate	2000 Hz		Safe Overload	150% F.S.
Memory	1000 data		Input Impedance	350-415Ω
Outputs	USB, Set point output, RS232C		Output Impedance	350 \pm 5Ω
Power	3.6VDC Ni-MH rechargeable batteries Universal USB charger, Input:100~240VAC		Dimensions	145X73X34(mm)
		Weight	Display Unit 0.7 kg (1.5 lb)	



Dimension



Package



Optional

Mini Printer EPX58P-F	Rs232 Cable ECB-MD8-DB9
EON311f0000	
Torque Test Stand EST-TT2	Desktop Stand AGN-DS80
EON420b0000	



Features

- Wide range (0.5% ~100% capacity)& hight accuracy($\pm 0.3\%$ readings)
- Reversible display
- Units: N·m, N·cm, kgf·cm, lbf·ft, lbf·in
- Display Mode: Digital/Diagram
- Measuring Mode: Track, Peak, First Peak, Preset
- Connect to PC easily
- Printing: Mini Printer(data printing /diagram printing)



Models

Model	Capacity/Resolution					Interface
	N.m	N.cm	kgf.cm	lbf.ft	lbf.in	
ETTB2	0.1~2/0.0002	10~200/0.02	1~20/0.002	0.07~1.48/0.0002	0.89~17.7/0.002	□12.5 (1/2")
ETTB5	0.25~5/0.005	25~500/0.05	2.5~50/0.005	0.18~3.7/0.0005	2.2~44.3/0.005	□ 6.3 (1/4") Square Drive Adapter
ETTB10	0.5~10/0.001	50~1000/0.1	5~100/0.01	0.37~7.4/0.001	4.4~88.5/0.01	
ETTB20	1~20/0.002	100~2000/0.2	10~200/0.02	0.7~14.8/0.002	8.9~177/0.02	□12.5 (1/2")
ETTB50	2.5~50/0.005	250~5000/0.5	25~500/0.05	1.8~36.8/0.005	22~443/0.05	□ 10 (3/8") Square Drive Adapter
ETTB100	5~100/0.01	500~10000/1	50~1000/0.1	3.7~74/0.01	44~885/0.1	



Digital Display

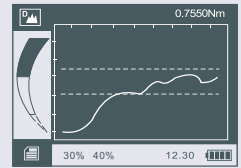
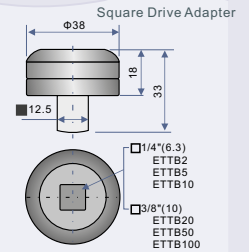
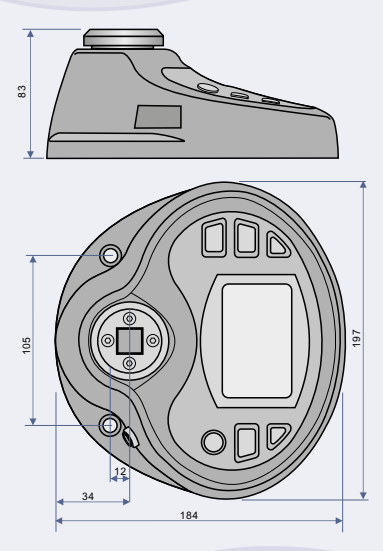


Diagram Display

Specifications

Measuring Range	5%~100% capacity
Accuracy	$\pm 0.3\%$ reading
Units	N·m, N·cm, kgf·cm, lbf·ft, lbf·in
Display	240*160 matrix LCD with Backlight
Overload	120% F.S.
Display Mode	Digital/Diagram
Measuring Mode	Track, Peak, AutoPeaak,FirstPeak,Preset
Sampling Rate	2000 Hz
Memory	1000 data
Output	USB, Set point output, RS232C
Power	3.6VDC Ni-MH rechargeable batteries Universal USB charger, Input:100~240VAC
Dimension	197X183X83 mm
Weight	~ 1.6 kg

Dimension



Optional

Rounddown Adapter	Mini Printer	Rs232 Cable	Torque Test Stand	
ATT-RDF	EPX58P	ECB-MD8-DB9	EST-TT1	EST-TT2
EON429a0000	EON311f0000		EON420a0000	EON420b0000



Package





Features

- ◆ Wide range (0.5% ~100% capacity)
- ◆ High accuracy(±0.3% readings)
- ◆ Reversible display
- ◆ Units: N·m, N·cm, kgf·cm, lbf·ft, lbf·in
- ◆ Display Mode: Digital/Diagram
- ◆ Measuring Mode: Track, Peak, First Peak, Preset
- ◆ Connect to PC easily
- ◆ Printing: Mini Printer(data printing /diagram printing)

Models

Model	N.m	N.cm	kgf.cm	lbf.ft	lbf.in	Capacity/Resolution
						Interface
ETTC5	0.25~5/0.005	25~500/0.05	2.5~50/0.005	0.18~3.7/0.0005	2.2~44.3/0.005	□12.5 (1/2")
ETTC10	0.5~10/0.001	50~1000/0.1	5~100/0.01	0.37~7.4/0.001	4.4~88.5/0.01	□ 6.3 (1/4") Square Drive Adapter
ETTC20	1~20/0.002	100~2000/0.2	10~200/0.02	0.7~14.8/0.002	8.9~1770/0.02	□12.5 (1/2")
ETTC50	2.5~50/0.005	250~5000/0.5	25~500/0.05	1.8~36.8/0.005	22~443/0.05	
ETTC100	5~100/0.01	500~10000/1	50~1000/0.1	3.7~74/0.01	44~885/0.1	□ 10 (3/8") Square Drive Adapter
ETTC200	10~200/0.002	-	100~2000/0.2	7.4~148/0.02	89~1770/0.2	□ 19 (3/4")
ETTC500	25~500/0.005		250~5000/0.5	18.4~368/0.05	220~4425/0.5	
ETTC800	40~800/0.1		400~8000/1	29.5~590/0.1	354~7080/1	



Digital Display

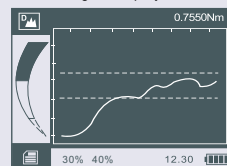
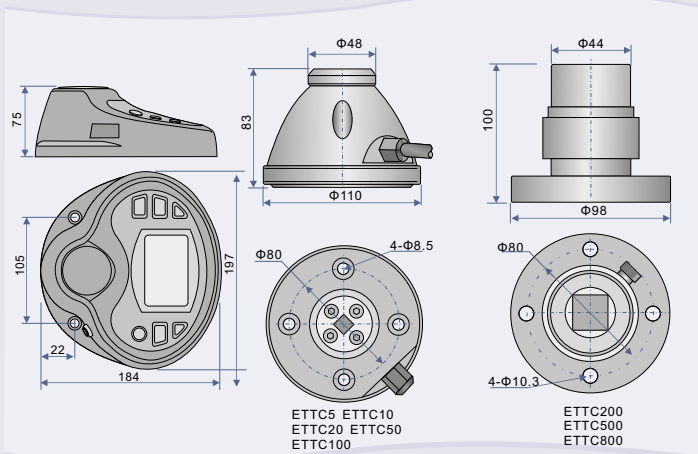


Diagram Display

Specifications






Measuring Range	5%~100% capacity
Accuracy	± 0.3% reading
Units	N·m, N·cm, kgf·cm, lbf·ft, lbf·in
Display	240*160 matrix LCD with Backlight
Overload	120% F.S.
Display Mode	Digital/Diagram
Measuring Mode	Track, Peak, AutoPeak, FirstPeak, Preset
Sampling Rate	2000 Hz
Memory	1000 data
Output	USB, Set point output, RS232C
Power	3.6VDC Ni-MH rechargeable batteries Universal USB charger, Input:100~240VAC
Dimension	Display Unit:197X183X75 mm
Weight	Display Unit:1.6 kg Sensors: 1.1 kg (100 N.m and below), 2 kg (500 N.m, 800 N.m)



Package



Optional

Rundown Adapter	Mini Printer	Rs232 Cable
ATT-RDF	EPX58P	ECB-MD8-DB9
		
EON429a0000	EON311f0000	
Torque Test Stand		
EST-TT1	EST-TT2	
		
EON420a0000	EON420b0000	



Features

- Accuracy: $\pm 0.3\%$ of reading
- Reversible display
- Units: N·m, N·cm, kgf·cm, lbf·ft, lbf·in
- Display Mode: Digital/Diagram
- Measuring Mode:
 - Track, Peak, First Peak, Auto Peak, Double Peak, Preset
- Connect to PC easily
- Printing: Wireless Printer



Models

Model	Capacity/Resolution				
	N.m	N.cm	kgf.cm	lbf.ft	lbf.in
ECT2	0.1~2/0.0002	10~200/0.02	1~20/0.002	0.07~1.48/0.0002	0.89~17.7/0.002
ECT5	0.25~5/0.005	25~500/0.05	2.5~50/0.005	0.18~3.7/0.0005	2.2~44.3/0.005
ECT10	0.5~10/0.001	50~1000/0.1	5~100/0.01	0.37~7.4/0.001	4.4~88.5/0.01
ECT20	1~20/0.002	100~2000/0.2	10~200/0.02	0.7~14.8/0.002	8.9~177/0.02



Digital Display

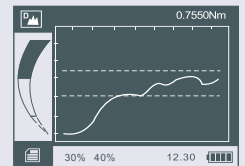


Diagram Display

Specifications

Measuring Range	5%~100% capacity
Accuracy	$\pm 0.3\%$ reading
Clamping Range	$\Phi 19.5 \sim \Phi 190$
Units	N·m, N·cm, kgf·cm, lbf·ft, lbf·in
Display	240*160 matrix LCD with Backlight
Overload	120% F.S.
Display Mode	Digital/Diagram
Measuring Mode	Track, Peak, AutoPeaak, FirstPeak, Double Peak, Preset
Sampling Rate	2000 Hz
Memory	1000 data
Output	USB, Set point output, RS232C
Power	3.6VDC Ni-MH rechargeable batteries Universal USB charger, Input:100~240VAC
Dimension	197X183X142 mm
Weight	~ 2.5 kg

Optional

Mini Printer

EPX58P



EON311f0000

Rs232 Cable

ECB-MD8-DB9

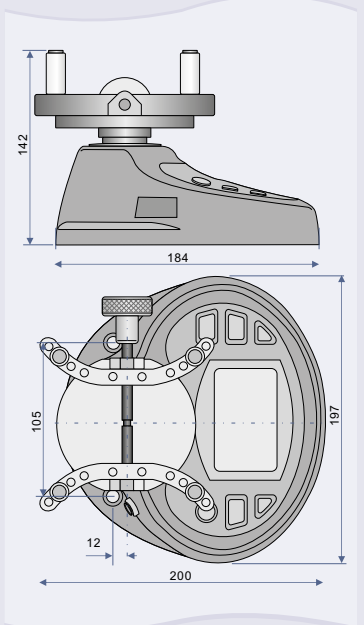


Torque Test Stand

EST-TT2



EON420b0000

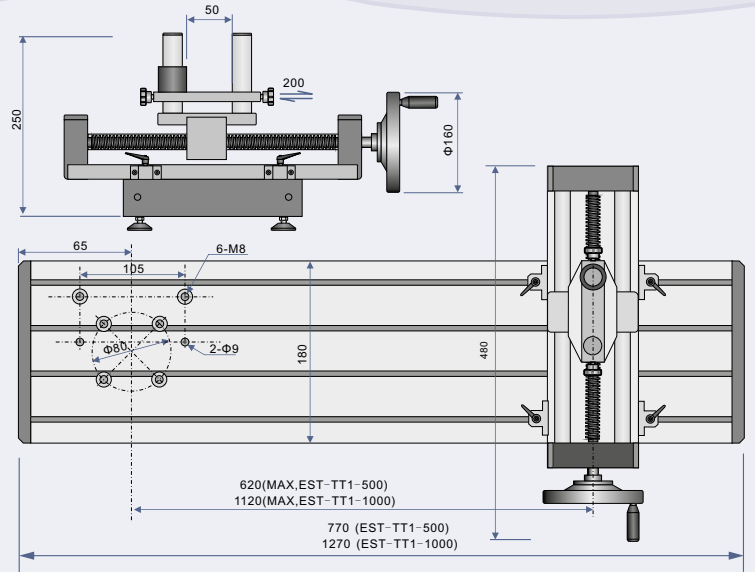


EST-TT1 Torque Test Stand

Used for: ETTB series, ETTTC series 100N.m or less.



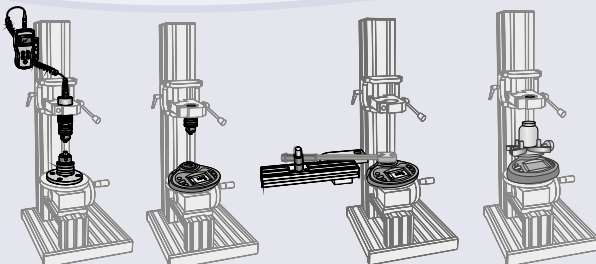
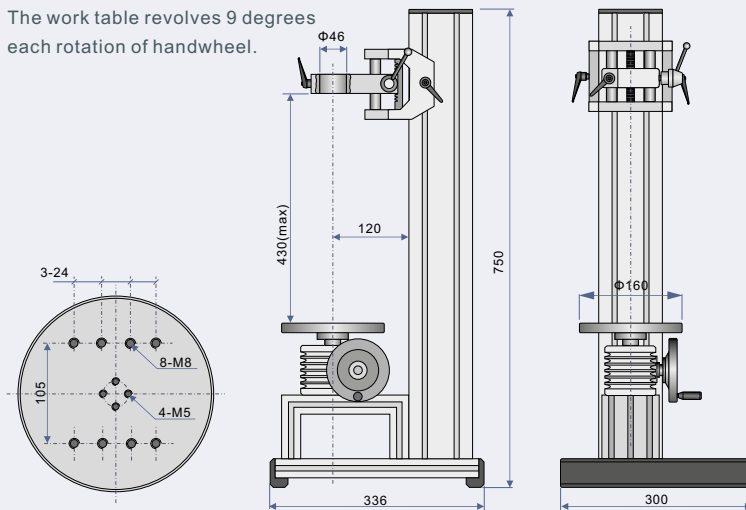
Model	Arm Length (mm)	Loader Travel	Load Force	Weight
EST-TT1-500	150~600	200mm	max. 1000N	12kg
EST-TT1-1000	150~1000			16kg



EST-TT1 Torque Test Stand

Used for: ETTA5 and ETTA10, ETTB series, ECT series, ETTTC series 100N.m or less.

The work table revolves 9 degrees each rotation of handwheel.



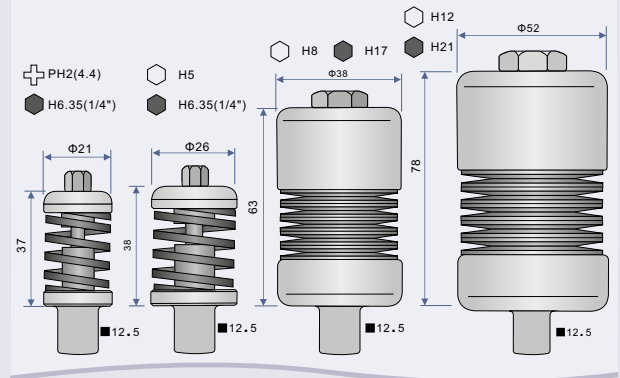
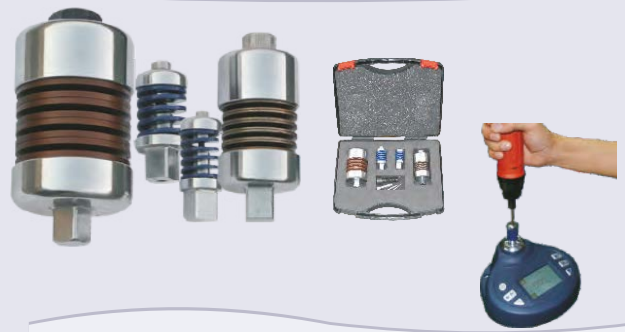
Optional

Jaw Chuck Clamp	Wrench Calibration Stand
ATT-JC80	
	

RDF Run down Adapter

Used for ETTB series and ETTC 100N.m or less.

Model	Description	Interface	Package List	Weight
EAK-T-RDF1	Run Down Adapter Set		ATT-RDF02 1 ATT-RDF06 1 ATT-RDF40 1 ATT-RDF100 1 Screws Carry Case 1	2.3kg
ATT-RDF-2	Run Down Adapter 2 N.m	■ 12.5(1/2") ▾ + 4.4(PH2), ● 6.35(1/4")	Run Down Adapter 1 1/4" Hex screw 1 Cross recessed screw 2	0.09kg
ATT-RDF-6	Run Down Adapter 6 N.m	■ 12.5(1/2") ▾ + 6.9(PH3), ● 6.35(1/4")	Run Down Adapter 1 1/4" Hex screw 1 Cross recessed screw 1	0.13kg
ATT-RDF-40	Run Down Adapter 40 N.m	■ 12.5(1/2") ▾ ● 17 ○ 8	Run Down Adapter 1 Hex socket screw 1 Hex screw 1	0.48kg
ATT-RDF-100	Run Down Adapter 100 N.m	■ 12.5(1/2") ▾ ● 21 ○ 12	Run Down Adapter 1 Hex socket screw 1 Hex screw 1	1.15kg



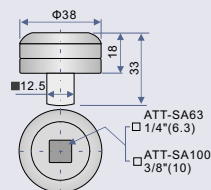
Clamp

Model	Description	Clamping	Used for	Weight
ATT-DC13	Drill Chuck Clamp	Φ 2-13 12N.m	EST-TT2	
ATT-JC80	Jaw Chuck Clamp	Φ 2-63 50N.m	EST-TT2	


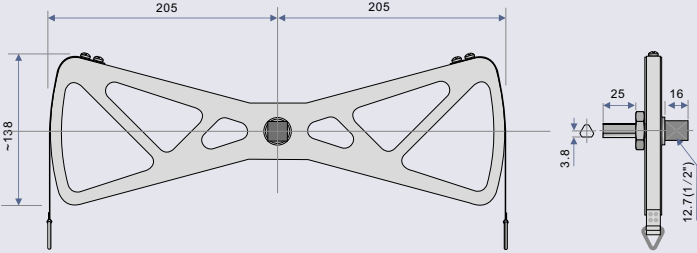

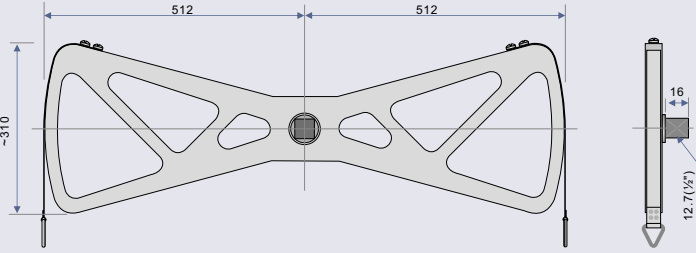
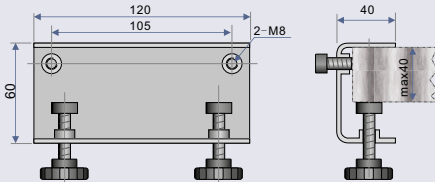
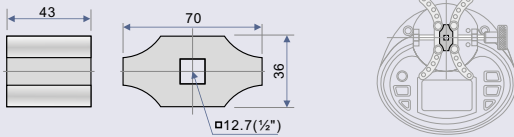


Square Adapter

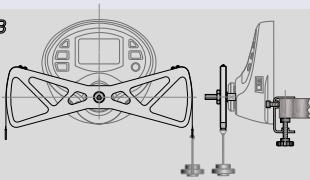
Model	Interface	Used for	Weight
ATT-SA12.5-6.3	■ 12.5(1/2") ▾ □ 6.3(1/4")	ETTB ETTC	
ATT-SA12.5-10	■ 12.5(1/2") ▾ □ 10(3/8")		



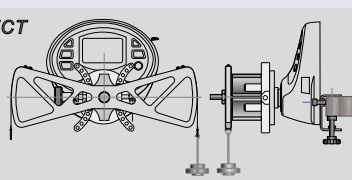
Torque Calibration Accessories

	<p>Calibration Lever ATT-LV205</p> <p>Arm Length: 205mm Max Torque: 50Nm Weight: 0.8kg</p>																			
	<p>Calibration Lever ATT-LV512</p> <p>Arm Length: 512mm Max Torque: 150Nm Weight: 3.8kg</p>																			
	<p>Vertical Fixed Stand ATT-VS60</p>																			
	<p>Cap Tester Adapter ATT-CA70</p>																			
<p>Torque Calibration Set EAK-T-CK205</p>	<p>Torque Calibration Set EAK-T-CK510</p>	<table border="1"> <tbody> <tr> <td>Calibration Lever</td> <td>ATG-LV205</td> <td>1</td> </tr> <tr> <td>Vertical Fixed Stand</td> <td>ATG-VS60</td> <td>1</td> </tr> <tr> <td>Cap Tester Adapte</td> <td>ATG-CA70</td> <td>1</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>Calibration Lever</td> <td>ATG-LV512</td> <td>1</td> </tr> <tr> <td>Vertical Fixed Stand</td> <td>ATG-VS60</td> <td>1</td> </tr> <tr> <td>Cap Tester Adapte</td> <td>ATG-CA70</td> <td>1</td> </tr> </tbody> </table>	Calibration Lever	ATG-LV205	1	Vertical Fixed Stand	ATG-VS60	1	Cap Tester Adapte	ATG-CA70	1	Calibration Lever	ATG-LV512	1	Vertical Fixed Stand	ATG-VS60	1	Cap Tester Adapte	ATG-CA70	1
Calibration Lever	ATG-LV205	1																		
Vertical Fixed Stand	ATG-VS60	1																		
Cap Tester Adapte	ATG-CA70	1																		
Calibration Lever	ATG-LV512	1																		
Vertical Fixed Stand	ATG-VS60	1																		
Cap Tester Adapte	ATG-CA70	1																		

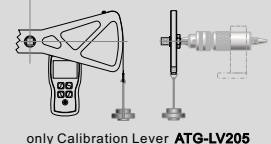
ETTB



















ECT



ETTA



-  CE Certificate
-  FCC Certificate
-  Wireless Printing
-  Unit Conversion
-  Touch Pad
-  Connect to PC
-  Multiple Probe(Sensor)
-  Automatic Sensor Identification
-  Power by Batteries
-  Chargeable
-  Go/NG
-  Overload Alarm
-  Automatic Direction Identification
-  Diagram Display
-  Sensor Data Integration
-  AC Power