

SPECIFICATIONS

Display : 3³/₄, digit (4000 counts), 9999 counts (Frequency mode), 40 segments analog bar graph and function units sign annunciators

Polarity : Automatic, positive implied, negative polarity indication.

Overrange : "4000 "or"-4000" Most Significant Digit blinks. **Low battery indication** : the " + " is displayed when the battery voltage drops below the operating level. **Measurement rate** : 2/sec, nominal. 1/sec, Capacitance and Frequency mode. 20/sec, Analog display.

Operating Environment : 0° C to 40° C at < 70% relative humidity.

Storage Temperature : -20°C to 60°C, 0 to 80% R.H. with battery removed from meter.

Accuracy : Stated accuracy at 23° C + 5° C, <75% relative humidity.

Safety : According to EN61010-1 protection class II overvoltage category (CAT III 600V) pollution degree 2.

Auto Power off : 30minutes after rotary switch or mode changes.

Clamp jaw : According to EN61010-2-032 CAT IV 600V. **Power :** single standard 9-volt battery, NEDA 1604, JIS 006P, IEC 6F22.

Battery life : 150 hours typical with carbon-zinc. **Dimensions :** 250mm (H) x 100mm (W) x 46mm (D). **Weight :** Approx. 380g including battery.

Accessories : One pair test 1eads, 9V battery (installed). 3

SAFETY INFORMATION

The following safety information must be observed to insure maximum personal safety during the operation at this meter:

- Do not use the meter if the meter or test leads look damaged, or if you suspect that the meter is not operating properly.
- 2. Use caution when working above 60V dc or 30V ac rms. Such voltages pose a shock hazard.
- 3. When Using the probes, keep your fingers behind the finger guards on the probes.
- 4. Measuring voltage which exceeds the limits of the clamp meter may damage the meter and expose the operator to a shock hazard. Always recognize the meter voltage limits as stated on the front of the meter.
- 5. If the equipment is used in a manner not specified by the manufacturer, the protection provided the equipment may be impaired.

DC VOLTS

Ranges	: 400mV, 4V, 40V, 400V, 600V
Resolution	: 100µV
Accuracy (ranges)	: ±(0.25% rdg + 1dgt) on 400mV to 400V
	±(0.25% rdg + 3dgts) on 600V
Input impedance	: > 10MΩ
Overload protection	1: 600VDC or AC rms
AC VOLTS (True RM	IS) (50Hz-500Hz)
Ranges	: 4V, 40V, 400V, 600V
Resolution	: 1mV
Accuracy	: ±(0.75% rdg + 4dgts) on 50-60Hz
-	±(2.0% rdg + 4dgts) on 40-500Hz
Input impedance	: > 10MΩ
Effect Reading	: 100 - 3999
Overload protection	1: 600VDC or 600VAC rms
RESISTANCE	
Ranges	: 400Ω, 4ΚΩ, 40ΚΩ, 400ΚΩ, 4000ΚΩ, 40ΜΩ
Accuracy (ranges)	: ±(0.3% rdg + 5dgts) on 400Ω
	±(0.3% rdg + 1dgt) on 4KΩ to 400KΩ
	\pm (0.5% rdg + 1dgt) on 4000K Ω
	\pm (2.0% rdg + 4dgts) on 40M Ω
Open circuit volts	: 0.4Vdc
Overload protection	1: 600VDC or AC rms

2

CONTINUITY

DIODE TEST

Test current	: 1.0mA + 0.6mA
Accuracy	: +(3.0% rdg + 3dgts)
Open circuit volts	: 3.0Vdc typical
Overload protection	: 600VDC or AC rms

FREQUENCY (Autoranging)

Ranges	: 100Hz, 1kHz, 10kHz, 100kHz, 500kHz
Resolution	: 0.01Hz
Accuracy	: +(0.1% rdg + 2dgts)
Sensitivity	: 2.0Vrms min
Effect reading	: 10-9999
Overload protection	: 600VDC or AC rms

CAPACITANCE

Ranges	: 4nF, 40nF, 400nF, 4μF, 40μF
Accuracy	: ±(3.0% rdg + 20dgts) on4n
	Frange(use Δ ZERO)
	±(3.0% rdg + 4dgts) on 40nF to
	20µF ranges
	\pm (6.0% rdg + 4dgts) above 20 μ F

Overload protection : 600VDC or AC rms

OPERATION

Before taking any measurements, read the Safety Information Section. Always examine the instrument for damage, contamination (excessive dirt, grease, etc.) and defects. Examine the test leads for cracked or frayed insulation. If any abnormal conditions exist do not attempt to make any measurements.

Button

Press "
" button to toggle in and out of the Data Hold mode, except if you are already in the MIN MAX Recording mode.

In the Data Hold mode, the "HOLD" annunciator is displayed and the last reading is held on the display, the beeper emits a tone. Pressing (MIN / MAX) button when you are in the Data Hold mode causes you to exit Data Hold and enter the MIN MAX Recording mode.

In the MIN MAX Recording mode, press (HOLD) button to stop the recording of readings, press (HOLD) again to resume recording.

PEAK HOLD Button : (only AC current ranges 40-60Hz) Press "PEAK" button two times to toggle in and out of PEAK Hold mode. In the PEAK Hold mode, the "HOLD \mathbf{P} " annunciator is displayed. {Accuracy : ± [10% (readind - residual offset) + 10dgts], effect reading : 80 ~ 4000}

DC CURRENT (Put conductor at the center of the jaws)

Ranges	: 400A, 1200A
Resolution	: 100mA
Accuracy *700A to 1200A	: ±(1.5% rdg + 5dgts) : ±(2.0% rdg + 5dgts)

Overload protection : 1200Adc max. for 1 minute.

AC CURRENT (True RMS) (40Hz-500Hz) (Put conductor at the center of the jaws)

Ranges	: 400A, 1000A
Resolution	: 100mA
Accuracy	: ±(1.75% rdg + 5dgts) on 50Hz-60Hz
	±(3.5% rdg + 5dgts) on 40Hz-500Hz
*700A to 1000A (50Hz/60Hz)	: ±(2.5% rdg + 5dgts)

Overload protection : 1000Aac max. for 1 minute.

6

MIN / MAX button

Press (MIN / MAX) button to enter the MIN MAX Recording mode. The minimum, maximum values are then reset to the present input, the readings are stored in memory, and the "HOLD" annunciator turns on. Push the button to cycle through the minimum (MIN) "maximum (MAX), and present readings. The MIN or MAX annunciator turns on to indicate what value is being displayed.

In the MIN MAX Recording mode, press (HOLD) button to stop the recording of readings, press again to restart recording. If recording is stopped, the minimum, maximum, or present values and analog display are frozen. In the MIN MAX Recording mode, when a new minimum value is exceed the actual minimum readings or a new maximum value is overload, the minimum or maximum value will held on the display, but the analog display continues to be active.

AC current ranges without MIN/MAX function.

Δ ZERO Button

Press (Δ ZERO) button to enter the Relative mode, the " Δ ZERO" annunciator turn on, zero the display, and store the displayed reading as a reference value. Press and hold down the (Δ ZERO) button for 2 seconds to exit the relative mode.

RANGE Button

Press (RANGE) button to select the Manual Range mode and turn off the "AUTO" annunciator. (The meter remains in the range it was in when manual ranging was selected).

In the Manual Range mode. each time you press (RANGE) button, the range (and the input range annunciator) increments, and a new value is displayed. To exit the Manual Range mode and return to autoranging, press and hold down (RANGE) button for 2 seconds. The "AUTO" annunciator turns back on.

Voltage Measurements

- 1. Connect the red test lead to the "V" jack and the black test lead to the "COM" jack.
- 2. Set the Function/Range switch to the desired voltage range (AC or DC). The meter will automatically select the best voltage range.
- 3. Connect the test leads to the device or circuit being measured.
- 4. For dc, a (-) sign is displayed for negative polarity; positive polarity is implied.

Current Measurements

- Set the Function/Range switch to the desired highest 1000AAC or 1200A DC range. In DC current measurement use ΔZERO button, offset the residual magnetic of the jaws.
- 2. Press the trigger to open transformer jaws and clamp onto one conductor only. Read the current directly on the display. It is recommended that the conductor be placed at the center of the closed jaws for maximum accuracy.
- 3. When the reading is lower than 400 counts, set the range switch to the next lower range position. For maximum accuracy, select the lower range possible without overranging the meter.

Resistance Measurements

- 1. Set the Function/Range switch to the resistance range.
- 2. Remove power from the equipment under test.
- 3. Connect the red test lead to the " + " jack and the black test lead to the "COM" jack.
- 4. Touch the probes to the test points. In ohms, the value indicated in the display is the measured value of resistance.

WARNING

The accuracy of the functions might be slightly affected, when exposed to a radiated electromagnetic field environment, e.g. radio, telephone or similar.

10

9

Continuity Measurements

- 1. Set the Function/Range switch to the "•))) " position.
- 2. Remove power from the equipment under test.
- 3. Connect the red test lead to the " + " jack and the black test lead to the "COM" jack.
- 4. Touch the probes to the test points. the beeper sounds continuously, if the resistance is less than 40Ω .

Diode Tests

- 1. Connect the red test lead to the " + " jack and the black test lead to the "COM" jack.
- 2. Set the Function/Range switch to the " → " position.
- 3. Turn off power to the circuit under test.
- 4. Touch probes to the diode. A forward-voltage drop is about 0.6V (typical for a silicon diode).
- 5. Reverse probes. If the diode is good, "4000" is displayed. If the diode is shorted, ".000" or another number is displayed.
- 6. If the diode is open, "4000" is displayed in both directions.

Frequency Measurements

- 1. Set the Function/Range switch to the Hz position.
- 2. Connect the red test lead to the " + " jack and the black test lead to the "COM" jack.
- 3. Connect the test leads to the point of measurement and read the frequency from the display.

Capacitance Measurements

- 1. Set the Function/Range switch to the "-+" range.
- 2. Connect the test leads to the " + " jack and the black test lead to the "COM" jack.
- Connect the red test lead to the capacitor and read the capacitance directly from the display.

MAINTENANCE

WARNING

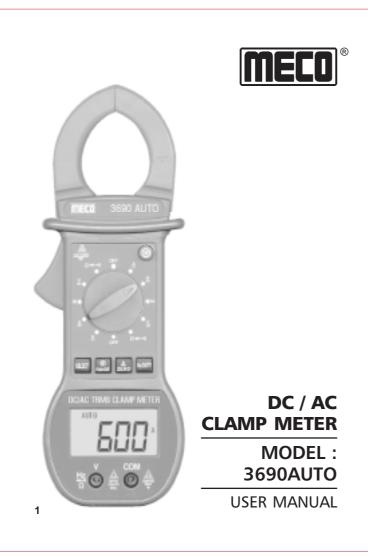
Remove test leads before changing battery or performing any servicing.

Battery Replacemeat

Power is supplied by a 9 volt "transistor" battery. (NEDA 1604, IEC 6F22). The " [-] " appears on the LCD display when replacement is needed. To replace the battery, remove the two screws from the back of the meter and lift off the battery cover. Remove the battery from battery contacts.

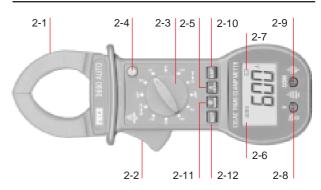
Cleaning

Periodically wipe the case with a damp cloth and detergent, do not use abrasives or solvents.



- 2-8 VΩ, Hz, →, •))) Input Terminal : This terminal is used as input for voltage, ohm, continuity, diode and frequency measurement.
- 2-9 COM Terminal : This terminal is used as common reference input.
- 2-10 Hz / Duty Button
- 2-11 Range Button
- 2-12 Select Button

FRONT PANEL CONTROLS



- 2-1 Transformer Jaw : This is used to sense the current signal. To measure DC/AC current, conductor must be enclosed by the jaw.
- 2-2 Transformer Trigger : This is used to open the jaw.
- 2-3 Function selector switch : This is use to select the function user desired such as DCA, ACA, $\frac{V}{2}$, ohm, continuity, diode and Hz.
- 2-4 Data Hold Button
- 2-5 Zero Button
- 2-6 LCD : This is a 3¼ digit liquid crystal display with maximum indication of 4000 counts.
- 2-7 Low Battery Symbol : When this Symbol appears, it means the battery voltage drops below the minimum required voltage. Refer to section V for battery replacement.

2

1. SPECIFICATIONS										
1.1 General Specifications										
Display	: 3¾ digit liquit crystal display (LCD) Max reading 4000 counts									
Polarity	: Automatic, Positive implied, (-) negative polarity indication									
Zero adjustment	: Automatic									
Over range indication	: "OL" or "-OL"									
Low battery	: "🛨 –" mark turns on.									
Sample rate	: 3 times per second, nominal									
Operating conditions	: O°C to +50°C at > 75% RH									
	(Noncondensing)									
Storage conditions	: -20°C to +60°C, 80% RH with battery removed									
Accuracy	: Accuracy specification at 27°C ± 5°C less than 75% RH.									
Power Supply	: Two 1.5 V AAA size battery									
Battery Life	: 150 hours typical with carbon zinc									
Dimensions	: 215mm (H) x 80mm (W) x 40 mm(D)									
Weight	: 280 gms (approx.)									
Accessories	: one pair of test leads. Two 1.5 V AAA size battery (installed), Instruction manual.									
Max. Jaw Opening	: 30mm									

3

1.2 Electr	ical	Specificati	on								
DC CURF	RENT	Γ:									
Range		Accu	racy		Overload Protection						
400A		± (1.5% rdg	g ± 5 dgts)		1200A DC Max.						
600A		± (2.0% rdg	g ± 5 dgts)		for 1 minute						
AC CURR	ENT	· :									
Range		Accur	acy		Overload Protection						
Kange	50	0 - 60Hz	40 - 500H	z	Overload Fiblection						
400A	± (′	1.75% rdg	± (3.5% rd	g	1000A AC Max.						
600A	±	5 dgts)	for 1 minute.								
AC Voltag	je (A	uto Ranging	g)								
Range		: -	4V, 40V, 400)V,	600V						
Resolutior	٦	:	1mV to 1V								
Accuracy			: ± (1.2 % rdg + 4 dgts) on 50 - 60 Hz ± (2% rdg + 25 dgts) on 40 - 500Hz ± (4% rdg +5dgts) on 600v								
Input impe	edan	ce :	>10MΩ								
Over load	prot	ection :	: 600V DC or 600V AC rms.								
DC Voltag	je (A	uto Ranging	g)								
Range		:	400mV, 4V,	40\	V, 400V, 600V						
Resolution	٦	:	: 0.1mV to 1V								
Accuracy			± (0.5 % rdg 400mV to 40 ± (0.7 % rdg	00	o ,						
Input impe	edan	ce :	: >10MΩ								
Over load	prot	ection :	600V DC or	60	0V AC rms.						

Resistance (auto rang	ging)
Range	: 400Ω, 4ΚΩ, 40ΚΩ, 400ΚΩ, 4ΜΩ, 40ΜΩ
Resolution	: 0.1Ω to 0.01MΩ
Accuracy	: ± (0.75% rdg + 8 dgts) on 400Ω to 400KΩ ± (1.0 % rdg +6 dgts) on 4MΩ ± (2-0 % rdg +4 dgts) on 40MΩ
Open Circuit Volts	: 0.4V DC
Over load protection	: 600V DC or AC rms.
Diode test	
Test Current	: 1.0 mA ± 0.6 mA
Accuracy	: \pm (3.0% rdg + 3 dgts) only for refrence
Open circuit volts	: 3.0V DC typical.
Overload protection	: 600V DC or AC rms.
Continuity	
Audiable indication	: less than $40\Omega \pm 20\Omega$
Overload protection	: 600V DC or AC rms.
Frequency (Auto Ran	ging)
Ranges	: 100Hz, 1KHz, 10KHz, 100KHz, 500KHz
Resolution	: 0.1 Hz to 0.1 KHz
Accuracy	: ± (0.3 % rdg + 2 dgts)
Sensitivity	: 3.0V rms min.
Effect reading	: 10 - 9999
Overload protection	: 200V DC or AC rms.
% Duty Cycle (auto ra	anging)
Range	: 1% to 90 %
Accuracy	: ± (0.5 % rdg + 5 dgts)
Resolution	: 0.1 %
Overload protection	: 200V DC or AC rms.
	6

2. OPERATION

1. Before taking only measurements, read the safety in information section. Always examine the instrument for deamage, contamination (excessive dirt, grease, etc.) and defeets. Examine the test leads for cracked or frayed insulation. If any abnormal conditions exist do not at ettempt to make any measurement.

2. Data Hold Button :

Press data hold button to toggle in and out of data hold mode, in the data hold mode, the " HOLD " annunciator is displayed.

3. Select Button :

In $\stackrel{\vee}{\simeq}$ Range it will select DCV or ACV function in Ω , \rightarrow , \bullet))) range it will select resistance or diode or continuity function.

4. Range Button :

Press (Range) button to select the manual range mode and turn off the 'Auto' annunciator (The meter remains in the range it was in when manual ranging was selected).

In the manual range mode. Each time you press (Range) button, the range (and the input range annunciator) in crements and a new value is displayed. To exit the manual range mode and return to autoranging, press and hold down (Range) button for 2 seconds. The 'auto' annunciator turns back on.

5. Zero Button :

Press (Δ zero) button to enter the relative mode the ' Δ zero' annunciator turn on zero the display, and store the displayed reading as a refrenece value, press and hold down the ($\Delta zero$) button for 2 seconds to exit the reative mode.

6. Hz / Duty Button :

In ACV range it will select ACV / HZ / Duty function in Hz range it will select Hz / Duty function.

A. DC/AC Current Measurements.

- 7. WARNING : Make sure that all the test leads are disconnected. from the meter's terminal for current measurement.
- 8. DC Current :
 - a) Set the rotary switch at DCA range.
 - b) Push the zero button to stop the reading at zero for one second If the reading is not stopped at zero, release the button a while and push it again.
 - c) Press the trigger to open the jaw and fully enclose the conductor to be mesured. No air gap is allowed between the two half jaws.
 - d) Read the measured value from the LCD display.
 - e) Make sure that the offset value caused by the residual magetism is still removed. If the new offset value is produced, remove it with the zero button and make a new measurement again according to the "c" & "d". (If the current to be measured is larger than the current measured before, or the direction of current changes. the new offset value will be produced.)

9. AC Current :

- a) Set the Function/Range switch to the ACA range.
- b) Press the trigger to open transformer jaws, clamp onto completely closed, Read the current directly on the display, It is recommended that the conductor be placed at the center of the close jaws for maximum accuracy.

B. DC/AC Voltage Measurements.

10. WARNING : Maximum input for DCV is 600V and for ACV is 600V Do not attempt to take any voltage measurement that exceeds the limits. Exceeding the limits could couse electrical shock and damage to the clamp meter. 8

11. DC Voltage :

- a) Set the rotary switch at $\stackrel{V}{\simeq}$ range.
- b) Insert the testleads into the input jack.
- c) Connect the test probe in parallel to the circuit to be measured.
- d) Read the measured value from the LCD display.

12. AC Voltage :

- a) Set the rotary switch at $\stackrel{V}{=}$ range
- b) Select ACV by pressing selcet button .
- c) Insert the test tead in to the input jack.
- d) Connect the test probe in parallel to the circuit to be measured.
- e) Read the measured value form the LCD display.

WARNING : Before taking any in-circuit resistance measurement remove power from the circuit being tested and discharge all the capacitors.

13. Resistance :

- a) Set the rotary switch at Ω , \rightarrow , \rightarrow))) range.
- b) Insert the test lead in to the input jack.
- c) If the resistance being measured is connected to a circuit, turn off power to the circuit being tested and discharge all the capacitors.
- d) Connect test lead across the resistance being measured. When meansuring high resistance, be sure not contact adjacent points even if insulated because some insulator have a relatively low insulation resistance, causing the measured resistance to be lower than the actual resistance.
- e) Read resistance value on digital display. If a high resistance value is shunted by a large value of capacitace allow display to stabilize.

17. Duty Cycle :

9

- a) Set the rotary switch at Hz range.
- b) Select duty cycle by pressing Hz / Duty button.
- c) Insert the test lead in to the input jack.
- d) Conncet the test lead to the points of measured and read duty cycle from the display

18. Frequency & Duty Cycle measurement :

- There are 2 positions for frequency & duty cycle measurment.
- a) 'Hz' position (not for line frequency measurement)
- b) 'ACV' position (for line frequency measurement)
- a) 'Hz' position (not for line frequency measurment)
 - Sensitivity : 3V

Frequency range : 100 Hz to 500KHz

Duty cycle : 1% to 90 %

Overload protection : 200V DC or AC peak

- 1) Set the rotary switch at Hz
- 2) Connect test lead in to the input jack.
- Select frequency or duty cycle by pressing 'Hz / Duty' button.
- Connect the test leads across the source or load under measurement
- a) 'ACV' position (for line ferquency, measurement).

Sensitivity : 2V

Ferquency range : 40 Hz to 500Hz

Duty cycle : 10% to 90%

Overload protection : 1000V DC or 750V AC peak.

- 1) Set the rotary switch at $\frac{V}{2}$
- 2) Connect test lead in to the input jack.

- 14. Diode :
 - a) Set the rotary switch at Ω , \rightarrow , \bullet))) range.
 - b) Select \rightarrow by pressing select button.
 - c) Insert the test lead in to the input jack.
 - d) Trun off power to the circuit under test.
 - e) Touch probes to the diode A forward voltage drop is about 0.6V (typical for a silicon diode)
 - f) If the digital display reads over range "OL" reverse the lead connections. The placement of the test leads when the forweard reading is displayed indicates the orientation of the diode. The red lead is positive and the black lead is negative. If overrange "OL" is display with both lead connection, the juction is open, if a low reading (less than 1000) is obtained with both lead conncetion, the junction is shorted internally or (if junction is measured in a circuit) the junction is shunted by a resistance less than 1k Ω in the letter case the junction must be disconnected form the circuit in order to verify its opertion.

15. Continuty :

- a) Set the rotary switch at Ω , \rightarrow , \bullet))) range.
- b) Select •))) by pressing select button.
- c) Insert the test lead in to the input jack.
- d) Connect the test lead to the test points the beeper sounds conninuosly. If the resistance is less than 40Ω
- 16. Frequency :
 - a) Set the rotary switch at Hz range.
 - b) Insert the test lead in to the input jack.
 - c) Connect the test lead to the points of measurement and read the frquency form the display.
 - 3) Select ACV range by pressing select button.
 - Select frequency or duty cycle by pressing 'Hz / Duty' button.
 - 5) Connect the test leads across the source or load under measurment.

3. MAINTENANCE

WARNING :

Remove test leads before changing battery performing any servicing. Never operate instrument unless bottom cover is closed.

TROUBLE SHOOTING

If there appears to be s malfunction during the operation of the meter, the following steps should be performed in order to isolate the cause of the problem :

- 1. Check the battery.
- 2. Review the operating instructions for possible mistakes in operating procedure
- 3. Inspect and test the Test Probes for a broken or intermittent connection.

BATTERY REPLACEMENT

When the low battery symbol is displayed on LCD, replace the old battery with new battery.

- A. Turn the power off and remove the test leads from the clamp meter.
- B. Remove the screw of the battery compartment.
- C. Slide off the battery compartment.
- D. Remove the old battery
- E. Insert new battery.
- F. Replace the battery compartment and secure the screw.

PRECAUTION

- Observe all safety rules while making measurements. CAUTION should be exercised when making measurements since dangerous voltages can be present in normally safe circuit or areas.
- 2. If this instrument is NOT going to be operated for an extended period remove the battery since damage can result from leakage.

4. SAFETY RULES

The following safety information must be observed to ensure maximum personal safety during the operation of this meter

- 1. Do not use the meter if the meter or test leads look damaged. or if you suspect that the meter is nat operating properly.
- 2. This clamp meter is designed to take current measurements on circuit with a maximum voltage difference of 500VAC between any conductor and ground potential. Using the instrument for current measurements on circuit above this voltage may cause electric shock, instrument damage or damage to the equipment under test.
- 3. Turn off power to the circuit under test before cutting, unsoldering, or breaking the circuit. Small amounts of current can be dangerous.
- 4. Use caution when working above 60V DC or 30V AC rms. Such Voltages pose a shock hazard.
- 5. When using the probes, keep your fingers behind the finger guards on the probes.
- 6. Measuring voltage which exceeds the limits of the clamp meter may damage the meter and expose the operator to a shock hazard.

Always recognize the meter voltage limits as stated on the meter.

13



Certificate of Calibration

We hereby certify that this product has been calibrated and found to be in accordance with the applicable SPECIFICATIONS and STANDARDS.

Accuracies of the standard equipment used in this calibration are traceable to the National Standards.

MECO METERS PVT. LTD.

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Tel: 0091-22-27673311-16, 27673300 (Board)

Fax: 0091-22-27673310, 27673330

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E-mail : sales@mecoinst.com Web : www.mecoinst.com

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