尺寸: 100*140mm

True RMS 6000 Count Digital Multimeter
FUNC HOLD MAX MIN -1, 8, 8, 8, 47% MAX MIN -1, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1

urately used by	 When using the test leads, I
ore utility from their	finger guards.
vides all safety	Do not apply more than the
ions, and	Meter, between the terminal
performs AC/DC	grounding.
le Continuity,	Do not use or store the Meter
, NCV Detection,	environment, do not expose
ig. Thank you	near strong magnetic fields.
guestions or	may deteriorate after dampe
ntact us at	When the Meter is working a
ritadi do di	in DC or 30V rms in AC, spe
	because there is a danger o
ual before using	When measuring, connect the second seco
dar before doing	first, and then connect the liv
	disconnect the live wire first.
	wire and the ground wire.
	Replace the battery as soon
injury, and to	appears. With a low battery,
e equipment being	readings that can lead to ele
e equipment being	Remove the connection beto
or casing. Do not	circuit being tested and turn
art of the exterior	opening the Meter case.
	The manual rotary switch shape in the formula
sing plastic. Pay	position before measuremen
he connectors.	during measurement to prev
ulations. Wear	Turn the Meter off when not
pproved rubber	when it is not going to be us
ng, etc.) to prevent	Regularly check the battery
hazardous live	been used for some time. R
alle de coma a acceda a	leaking appears. A leaking b
ally by measuring	
ngs are incorrect or	

\triangle	Warning		Dangerous Voltage		
~	AC (Alternating Current)	÷	Earth Ground		
	DC (Direct Current)	Ф	Fuse	GETTI	NG TO KN
≂	AC and DC		Double Insulation	OLITI	NO TO KIN
	Low Battery Symbol	C€	Compliance with EU Standards	• BUTTO	ONS FUNC
САТШ	Category III test equip and measurements of power distribution por supply unit in a buildir	f circuits tion of a	connected to the	Button	
CATIV	Category IV test equipand measurements of power supply of a low building.	f circuits		FUNC	 Use the refunction by the FUNC But are multiple example: tests. NOTE: Page 1
MULTI	METER DIAGRAM	///			before pe
8.6	3.888 3.888 3.888	2 3	NCV Detector Flashlight Button Indicator Light LCD Screen	HOLD	 Press this (freeze) the will display Press the
		() () () () () () () () () ()	Function buttons Rotary Function Switch 10A Terminal INPUT Terminal COM Terminal	MAXMIN	When tak to enter "I will captur button aga the lowes button to

		① Test Leads
us Voltage		© K-Type Therm
Ground		
use	GETTI	NG TO KNOW YOUR DEVICE
Insulation		,,,
ance with andards	• BUTTO	ONS FUNCTIONS
r testing I to the e power		PARE CO. LINE CO.
e power	Button	Function
or testing I to the oply unit in a	FUNC	Use the rotary switch to select a function FUNC Button to further select the function are multiple functions in one rotary setting example: Switching between AC and Ditests. NOTE: Pay special attention to the selector before performing any tests.
or utton ght	HOLD	Press this button while performing a tes (freeze) the reading for easy recording. will display when the hold function is Press the button again to cancel the da
ttons tion Switch I ninal nal ninal	MAXMIN	When taking a measurement, press this to enter "Max Mode". In this mode, the will capture the highest reading it record button again to enter "Min Mode" which the lowest reading it records. Press and button to exit the Max/Min Modes.
		-5-

© R-Type Memocoup	ile		shlight: Long Press this button to turn on/off the hlight.			
O KNOW YOUR DEVICE		• SETTING FU	JNCTION			
FUNCTIONS						
RANC WARM TO		Setting Function				
Function		NOTE: Use t				
e the rotary switch to select a function. Use			NOTE: Use the FUNC Button to further select the function if there are multiple functions in one rotary setting.			
INC Button to further select the function if to multiple functions in one rotary setting.Fo ample: Switching between AC and DC volt	r	V≂	DC Voltage Test : 0~1000v AC Voltage Test : 0~750v			
ts. TE: Pay special attention to the selected s		mV≂	AC/DC Voltage Test: 0~600mv			
fore performing any tests.		Ω	Resistance Test : 0.1Ω~60MΩ			
ess this button while performing a test to hereze) the reading for easy recording. The solding the reading the hold function is actived.	creen	46	Capacitance Test : 0.001nF~100mF			
ess the button again to cancel the data hol		01))	Audible Continuity Test			
nen taking a measurement, press this butto enter "Max Mode". In this mode, the multin		→ +	Diode Test			
I capture the highest reading it records. Pretton again to enter "Min Mode" which will c	apture	Hz	Frequency			
e lowest reading it records. Press and hold this tton to exit the Max/Min Modes.		%	Duty Cycle			
-5-			-6-			

	lashlight: Long Press this button to turn on/off the ashlight.	mA≂	AC/DC Current Test :
		μΑ≂	AC/DC Current Test :
• SETTING	FUNCTION	°F	Fahrenheit Tempe
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	℃	Celsius Tempera
		NCV	NCV Detection
Setting	Function	Live	Live Wire Detec
	e the FUNC Button to further select the function multiple functions in one rotary setting.		
V≂	DC Voltage Test : 0~1000v AC Voltage Test : 0~750v	• TERMINAI	LS
mV≂	AC/DC Voltage Test: 0~600mv		10.4 MULTING 10.600 Course (C.C.) 10.4 MULTING 10.000 Course (C.C.) 10.4 MULTING 10.000 Course (C.C.)
Ω	Resistance Test : 0.1Ω~60MΩ		2 HA STOAL
46	Capacitance Test : 0.001nF~100mF	1	Plug the red test lead into th
01))	Audible Continuity Test		currents between 600mA an
*	Diode Test	2	Plug the red test lead into th currents less than 600mA.
Hz	Frequency	3	Plug the red test lead into th measurements except curre
%	Duty Cycle	4	Plug the black test lead into
	-6-		-7-

ut Indication: Vhen turning on or function switching, the corresponding nput indicator light will flash to remind the user which erminal is inserted.	and "AC" will display when the M measure AC. • Connect the test leads to the sou
	Neutral wire first, then live wire.
th Voltage/High Current Indication: When the measured voltage is higher than 80V or the neasured current is higher than 1A, the orange backlight will ght up, prompting the user to be careful.	After the reading stabilizes, record screen.
w Battery Indication: f the" ੑ= " symbol appears on the display, the battery should e replaced immediately.	Turn the rotary switch to the OFF Meter.
Frequency Display: Vhen measuring AC voltage/current, the frequency of the oltage/current will display.	VOLTAGE NOTES: To avoid damage to the meter, descreeding 600V DC or 600V AC Pay special attention to the volta The LCD screen will indicate whe Use the "FUNC" button to choose
OW TO USE THIS MULTIMETER //	SPECIAL NOTE: The orange bar the measured voltage is higher the
MEASURING VOLTAGE	II. MEASURING CURRENT
nsert the red test lead into the "Input" jack	• Turn the rotary dial to the plan, man, man,

	l l
ct the test leads to the source of load to be measured. I wire first, then live wire.	• Under the Att lead to 10A te
	lead to COM
ne reading stabilizes, record the reading from the LCD	
	Disconnect th
	Connect the r
ne rotary switch to the OFF position to turn off the	then turn on t
	The reading v
E NOTES:	• The reading v
id damage to the meter, do not measure voltage ding 600V DC or 600V AC.	Ⅲ. MEASURING
pecial attention to the voltage setting of the Multimeter. CD screen will indicate whether the setting is in AC. e "FUNC" button to choose the appropriate setting. AL NOTE: The orange backlight will illuminate when	Turn the rotar
easured voltage is higher than 80V.	
	• Insert the red
SURING CURRENT	and the black
ne rotary dial to the 🌬 , 🗚 or setting	
ing to the current level to be measured.	• Connect the t
-9-	

the ¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬	• Turn the rotary dial to the a setting.
	Insert the red test lead into the "Input" jack and the black test lead into the "COM" jack.
r the A≅ setting, connect the red test to 10A terminal and the black test to COM terminal.	Place the test leads at both ends of the resistance measured and maintain strong contact.
nnect the power supply of the circuit under test. ect the meter to the circuit under test in series, and	The results will appear on the LCD display.
urn on the power supply of the circuit.	RESISTANCE NOTES:
eading will be displayed on the LCD screen.	 Do not change the resistance while taking a meas Doing so may damage the Meter and affect the test
SURING FREQUENCY/DUTY CYCLE	 Do not directly measure the internal resistance of mi galvanometers, batteries, and other instruments. Do not test parallel circuits. The accuracy of the
he rotary dial to the Hz% setting.	measurement will be affected, and the results may accurate. • If the measured value is equal to the nominal resis
the red test lead into the "Input" jack see black test lead into the "COM" jack.	 the resistor or within the range of error, the resisto functioning correctly. If there is a large deviation between the nominal reand the measured resistance, the resistor is bad. If the measured resistance is infinite (open circuit)
ect the test leads to the source or load to be measured.	(short circuit), or unstable, it means the resistor is and can no longer be used.
-10-	-11-

V. MEAGORING GAI AGITANGE	• If the value of the meas
• Turn the rotary dial to the \$\frac{1}{4}\$ setting. Press the "FUNC" button to switch to Capacity Test.	30Ω, the buzzer will em light will illuminate. When the red indicator light will display the measured will there is no continuity, appear on the screen, in the screen sc
	dippodir orr dire delicerity
Insert the red test lead into the "Input" jack and the black test lead into the "COM" jack.	VII. DIODE TEST
\\	Set the function switch Press the "FUNC" butto
 Make a secure connection between the test leads and both ends of the capacitor. 	diode Test.
	Connect the black test
	and the red test lead to
Measurement results will be displayed on the LCD display.	
VI. CONTINUITY TEST	Connect the red test le and the black test lead
• Turn the rotary dial to the spreading.	NOTE: Generally, the pend.
	• The LCD will show the
Insert the red test lead into the "Input" jack and the black test lead into the "COM" jack.	the diode. If the leads a electrodes, the LCD wi
and the state teather than the tree teath path.	VIII. TEMPERATURE MEA
Place the test leads on both sides of the object to be measured.	Set the function switch
-12-	

d indicator light will illuminate and the screen will	
y the measured value.	
e is no continuity, the buzzer will not sound, "OL" will	Carafully touch the and of the thermosouple to the
ar on the screen, indicating infinite resistance.	Carefully touch the end of the thermocouple to the
if of the screen, indicating infinite resistance.	being measured.
DE TEST	
72 1201	 Celsius and Fahrenheit are both displayed.
- f	
e function switch to "₽" range,	
the "FUNC" button to switch to	NOTE: Results take time to stabilize as thermal equ
Test.	reached with the measuring environment. When the
	thermocouple is not in contact with an object being i
	it will read the ambient temperature of the surroundi
ect the black test lead to the "COM" jack	environment.
ne red test lead to the "INPUT" jack.	
)	IX. NON-CONTACT VOLTAGE (NCV)
	IA. NON-CONTACT VOLTAGE (NCV)
ect the red test lead to the positive end of the diode	The NCV function detects AC voltage without
ne black test lead to the negative end.	the use of test leads.
: Generally, the positive end of the diode is the longer	the use of test leads.
	• Set the Rotary Dial to the NCV function NCV .
	Got the Notary Blanto the Not Tarlotter Live .
CD will show the reading of the voltage decreased by	
ode. If the leads are incorrectly connected to the diode	
odes, the LCD will show "OL".	 When the meter senses a weak AC signal, the great
3400, 1110 202 11111 311011 321	indicator light will turn on and the buzzer emits a s
	When the meter senses a strong AC signal, the re
PERATURE MEASUREMENT	light will turn on, and the buzzer will emit a quick b
025	NOTE: This function does not affect the Meter's
	measurement after exiting the setting. If the range
e function switch to "יַרָּר" range. פּרָעָר בּרָאַר בּרָאַר בּרָאַר בּרָאַר בּרָאַר בּרָאַר בּרָאַר בּרָאָר בּ	not in the NCV position, the Meter will operate nor
N (A VIII / N	
-13-	-14-

(+) plug to the INPUT Jack.	Press the Live Wire I will show "
ly touch the end of the thermocouple to the object neasured.	
and Fahrenheit are both displayed.	 Insert the jack. Do not any termin
esults take time to stabilize as thermal equilibrium is with the measuring environment. When the uple is not in contact with an object being measured,	• Touch the lead.
If the ambient temperature of the surrounding ent. CONTACT VOLTAGE (NCV)	When the indicator light with the indicator light was also light with the indicator light with the indicator light was also light was also light with the indicator light was also light was also light with the indicator light was also light was also light with the indicator li
	light will tu
V function detects AC voltage without of test leads.	GENERAL
Rotary Dial to the NCV function 🚾 .	
ne meter senses a weak AC signal, the green r light will turn on and the buzzer emits a slow beep; ne meter senses a strong AC signal, the red indicator turn on, and the buzzer will emit a guick beep.	Operating Environmen
This function does not affect the Meter's ement after exiting the setting. If the range switch is the NCV position, the Meter will operate normally.	Storage Environmen
-14-	

O Ura	Fuse Protection	mA: F600mA/250V fuse,6mmX32mm10A: F10A/250V fuse,6mmX32mm	
[Sampling Speed	• 3x per second	
THE PROPERTY OF THE PROPERTY O	Display	6000 counts display. Automatically displays unit according to rotary dial.	
o of the red test	Overload Indication	• "OL" Displayed	
	Low Battery Indication	• 🖙 displayed when battery voltage is lower than normal.	
the green emits a slow beep; I, the red indicator	Polarity Indication	"-"Automatically displayed	
quick beep.	Power	• 2 x 1.5V AA Batteries	
	TROUBLES	HOOTING //	
V (0~40°C) RH)	The reading does not stabilize	 Check the test leads for damage. Check the contact between test leads and object being measured. Check the connection between the test leads and the Meter. 	
x accuracy/°C	Reading is not accurate	Check the test leads for damage. Check if the battery needs to be replaced.	
0°F (-10~60°C) I, take out	A certain range is not available	Adjust the contact point of the transfer switch.	
		-16-	

	No reading		the fuse is intact. leads for damage.	DC CURRE	
1					
	DC VOLTAG	E ///		Range	Resc
	Range	Resolution	Accuracy	600µA	0.1µ
$+$ \parallel	600mV	0.1mV		6000µA	1µA
	6V	0.001V		60mA	0.01
	60V	0.01V	±(0.5% rdg +3 dgts)	600mA	0.1m
	600V	0.1V	- (***)*********************************	10A	0.01
	1000V	1V	+	Overload Pro	otection: ",
				Max.Input Cu	urrent: "A/
	 Input Impeda 	ince : 10ΙΝΙΩ			"10
_		tection: 1000V DC	:/750V AC	(For measurer	mante>54
_	Overload Pro	tection : 1000V DC	:/750V AC	(For measurer minutes)	ments>5A
			/750V AC		
	Overload Pro		7750V AC Accuracy	minutes)	NT ///
	Overload Pro AC VOLTAG	E ///		minutes) AC CURRE	NT ///
	Overload Pro AC VOLTAG Range	E /// Resolution		minutes) AC CURRE Range	
	Overload Pro AC VOLTAG Range 600mV	Resolution 0.1mV		minutes) AC CURRE Range 600μA	NT /// Reso 0.1µ
	Overload Pro AC VOLTAG Range 600mV 6V	Resolution 0.1mV 0.001V	Accuracy	Range 600µA	NT // Reso 0.1μ 1μΑ
	Overload Pro AC VOLTAG Range 600mV 6V 60V	Resolution 0.1mV 0.001V 0.01V	Accuracy	minutes) AC CURRE Range 600µA 6000µA 60mA	Resc 0.1µ 1µA 0.01

		"40 A" : I 40 /	۸		•	1			
		"10A" jack: 10 <i>A</i> : 40Hz ~ 1KHZ	4					752°F~ 183	32°F
			10 se	conds, interval >15		The ac probe.	•	s not include th	ie err
		•				CAPAC	CITANCE /		
SIS	TANCE /	<i>'</i>				Range	F	Resolution	
nge	F	Resolution		Accuracy		10nF	0	.001nF	
0Ω	C).1Ω				100nF	0	.01nF	1
Ω	C).001kΩ	+1	(1.0% rdg +3 dgts)		1000nF	= 0	.1nF	1.
kΩ	C).01kΩ	<u> </u>	(1.0 % rag 13 agis)		10µF	0	.001µF	1 [‡]
0kΩ	C).1kΩ				100µF	0	.01µF	1
ΙΩ	C	.001ΜΩ	+1	(1.5% rdg +3 dgts)		1000µF	= o	.1μF	1
МΩ	C	0.01ΜΩ		(1.070 rag 10 agis)		10mF	0	.001mF	Τ.
verlo	ad Protection	on: 250V				100mF	0	.01mF	1 3
						Overlo	ad Protection	n: 250V	
MPE	ERATURE					FREQU	JENCY/DL	JTY CYCLE	
nge	Resolution	,	Accur	асу		Range	F	Resolution	
		-20°C~ 0°C		±5.0% rdg or±3°C		10Hz	0	.001Hz	
C	1°C	0°C ~ 400°	С	±1.0% rdg or±2°C		100Hz	0	.01Hz] ±
		400°C ~ 1000	0°C	±2.0% rdg		1000Hz	z 0	.1Hz	1
		-19-			,			-20-	

TANC			1~99%	ó 	0.1%	
IANO	Resolution	Accuracy			je: 0~ 10MHz	L
0.001nF			freque	ency, the h	0.2~10V AC (the nigher the voltage	
	0.01nF		Overl	oad Prote	ction:250V	
	0.1nF	1/4 00/ rda 15 data)	NOTE: mv̄≂ and	⊮≂. Fregu	iency measurem	er
	0.001µF	±(4.0% rdg +5 dgts)	Meas	uring rang	e: 0 ~ 10kHz 0.5~600V AC (th	
	0.01µF		freque	ency, the h	nigher the voltage	
	0.1µF				ction: 250 V	
	0.001mF	±(5.0% rdg +5 dgts)			equency measur e: 0 ~ 10 kHz	en
	0.01mF	±(0.070 rag +0 agis)	 Signa 	I range; ≥	1/4 range (the haigher the curren	
d Prote	ction: 250V				ction: "A/mA":F6	00
ENCY/	DUTY CYCLE	///			"10A":F10	
	Resolution	Accuracy	DIODI	E AND C	ONTINUITY /	/
	0.001Hz		Range		Introduction	
	0.01Hz	±(1.0% rdg +3 dgts)			proximate forware Drop will be	d
	0.1Hz			displaye		
	-20-				-21-	
						_

			light will illuminate, and the screen will display the measured value.lf	Protection: 250V
10MHz 0V AC (the high the voltage sh	her the measured		there is no continuity, the buzzer will not sound, "OL" will appear on the screen, indicating infinite resistance.	
250V			TENANCE ///	
measurement 10kHz 00V AC (the hi the voltage sh 250 V	igher the measured	If there erroneo • Turn o • Wipe	ING THE METER: is dust or humidity in the terminals, it mous measurements. Please clean the Meof the power to the Meter and remove the case with a damp cloth or mild dete brasives or solvents. Wipe the contacts	ter as follows: e test leads. rgent. Do not
icy measureme - 10 kHz ange (the highe	ent: er the measured		nal with a clean cotton swab dampened ACING THE BATTERY AND FUSE	
the current sh "A/mA": F600r	ould be)		RY REPLACEMENT:	
"10A": F10A/2		• Turn o	off the Meter and remove the test leads.	
INUITY //		and re	ove the screws on the battery cover with emove the cover.	
luction	Remark	the sa	ove the old battery and replace it with a ame specification. Please pay attention battery. The positive and negative pola	o the polarity
nate forward will be	Test voltage: 3.0V Overload Protection: 250V	batter • Put th	y is marked in the battery box. The battery cover back to its original positive cover with the removed screws.	
-21-			-22-	

neasured t is less than I emit a beep and light will e value is t, the red indicator and the screen sured value.If ty, the buzzer will I appear on the infinite resistance.	REPLACING FUSES: Fuses rarely need to be replaced and are usually blown due to operator error. To replace the fuses: Disconnect the test leads. Remove the rubber sleeve and screws on the back cover of the Meter. Open the back of the Meter and replace with fuses of the same rating. It is crucial that the replacement fuses have the same rating: Fuse 1: F600mA/250V fuse,6mmX32mm Fuse 2: F10A/250V fuse,6mmX32mm	
the terminals, it may produce lease clean the Meter as follows: eter and remove the test leads. o cloth or mild detergent. Do not Wipe the contacts in each a swab dampened in alcohol.	 INCLUDED IN BOX 1 x Owner's Manual 1 x Pair of Test Leads 1 x K-Type Thermocouple 1 x AstroAl 6000 Counts Multimeter 3 YEAR WARRANTY LIMITED WARRANTY FROM ASTROAL	AstroA
ove the test leads. battery cover with a screwdriver, d replace it with a new battery of ease pay attention to the polarity and negative polarity of each ttery box. to its original position and fix the oved screws.	Each AstroAl Digital Multimeter will be free from defects in material and workmanship. This warranty does not cover fuses, disposable batteries and damage from neglect, misuse, contamination, alteration, accident, or abnormal conditions of operation or handling, including overvoltage failures caused by use outside the Multimeter's specified rating, or normal wear and tear of mechanical components. This warranty covers the original purchaser only and is not transferable. If this product is defective, please contact AstroAl Customer Support at support@astroai.com.	Web:www.astroai.com ■ E-mail:support@astroai.com