DT-380

Datasheet



1-Description

1-1.Meter Description

1-Current Clamp

2-Non-Contact AC Voltage Indicator Light

3-Clamp Trigger

4-Lighting LED Button

5-Rotary Function Switch

6-Data Hold Button

7-MODE Select Button

8-Range Button

9-Back Light Button

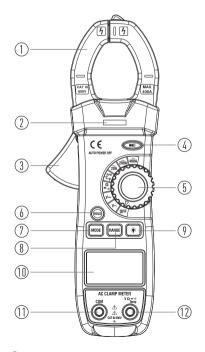
10-LCD Display

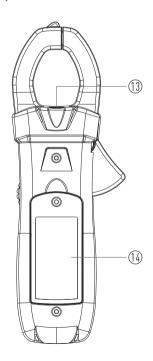
11-COM Input Jack

12-Positive Input Jack

13-Lighting LED

14-Battery Cover





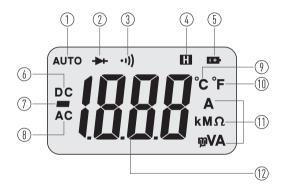
1-2.Symbols Used on LCD Display

1-Auto Range Mode 7-Minus Sign

2-Diode Test Mode 8-AC (Alternating Current) 3-Audible Continuit 9-Degrees Celcius

4-Data Hold Mode 10-Degrees Fahrenheit 5-Low Battery Icon 11-Units of Measure List

6-DC (Direct Current) 12-2000 Count (0 to 1999) Measurement Reading



2.Specifications 2-1.Specifications

z-1.5pecilii			
Function	Range	Resolution	Accuracy ±(% of reading)
AC Voltage	200mV	0.1mV	±(1.5% + 10 digits)
	2V	1mV	
	20V	10mV	±(1.5% + 8 digits)
	200V	100 mV	
	600V	1V	±(2.5% + 8 digits)
	·		
DC Voltage	200 mV	0.1mV	
	2V	1mV	±(1.5% + 2 digits)
	20V	10mV	
	200V	100 mV	
	600V	1V	±(2% + 2 digits)
Input Impeda	nce: 10M Ω ; Ove	er Rang Protecti	on: 600V.
AC Current	20A	10mA	±(2.5% + 5 digits)
	200A	100mA	
	400A	1A	±(3% + 5 digits)
Over Rang Pro	otection: Maximu	m input 400A; F	requency Response: 50 to 60Hz.
Resistance	200Ω	0.1Ω	±(1.0% + 4 digits)
	$2k\Omega$	1Ω	
	20kΩ	10Ω	±(1.5% + 4 digits)
	200kΩ	100Ω	
	$2M\Omega$	1kΩ	±(2.5% + 4 digits)
	$20 M\Omega$	10 k Ω	±(3.5% + 4 digits)
Over Rang Pr	otection: 250V rm		
Temperature	-20 to 760°C	1°C	±(3.0% + 5°C)
	-4 to 1400°F	1°F	±(3.0% + 8°F)
Sensor: K Typ	e banana Play.		

Function	Testing Condition	Reading
		Forward voltage drop of Diode.
	backward Voltage is approx. 1.5V.	
Continuity	Open voltage is appprox. 0.5V.	Buzzer makes a long sound, While
		resistance is less than(50 Ω).

2-2.General Specifications

Clamp Size Opening 1.2" (30mm) approx.

Continuity Check Threshold <50 Ω ; Test current <0.5mA.

Low Battery Indication " is displayed. Overrange Indication "OL" is displayed 2 per second, nominal Measurements Rate Input Impedance $10M\Omega$ (VDC and VAC) Display 2000 Counts LCD AC Current 50-60Hz (AAC) 50-60Hz (VAC) AC Voltage bandwidth Operating Temperature 5 to 40°C (41 to 104°F)

Storage Temperature 5 to 40°C (-4 to 140°F)

-20 to 60°C (-4 to 140°F)

Operating Humidity Max 80% up to 31°C (87°F) decreasing linearly to 50% at 40°C (104°F).

Storage Humidity <80%

Operating Altitude 7000ft. (2000meters) maximum.

 Over Voltage
 Category III 600V

 Battery
 2 x 1.5V "AAA" Battery

 Auto OFF
 approx. 15 minutes

Safety For indoor use and in accordance with Overvoltage Category II, Pollution

Degree 2. Category II includes local level, appliance, portable equipment,

etc., with transient overvoltages less than Overvoltage Cat III.

3.Button Function

3-1.MODE Button

To select °C/°F, OHM/ Diode/Continuity.

3-2 DATA HOLD Button

- To freeze the LCD meter reading, press the **DATA HOLD** Button.
- While data hold is active, the HOLD display icon appears on the LCD.
- Press the **DATA HOLD** Button again to return to normal operation.

3-3.RANGE Button

- When the meter is first turned on, it automatically goes into Auto Ranging.
- This automatically selects the best range for the measurements being made and is generally the best mode for most measurements.
- For measurement situations requiring that a range be manually selected, perform the following:
- Press the RANGE Button, The "Auto Range" display indicator will turn off, The "Manual Range" display indicator will turn on.
- 2. Press the **RANGE** Button to step through the available ranges until you select the range you want.
- Press and hold the RANGE Button for 2 seconds to exit the Manual Ranging mode and return to Auto Ranging.

3-4.BACK LIGHT Button

- Press the **Back light** button for over 2 second to turn the backlight on.
- Press again for over 1 second to turn the backlight off.

3-5.FLASH LIGHT LED Button

- Press the Flash Light LED button for over 1 second to turn the light on.
- Press again to shut off LED.