

Full Autorange Features

For faster test times and easy use

4 Digits 9999 Counts

up to 5 times the resolution of traditional digital multimeters

0.3% Basic Accuracy

For accurate measurements

EMC

Meets EN55011 and EN50082-1

Display Updates 4 Times/Sec.

For fast measurements

Analog Bargraph

Updates 20 times/sec to watch signal trend

Direct Dwell Readings

on 1,2,3,4,5,6,8,10 & 12 cylinders engines

Fuel Injector Function

For measuring pulse width on TBI and PFI systems

Diode test

For testing diodes and alternator rectifiers

Frequency

4 selectable sensitivity levels for testing sensors in automotive applications

Temperature

K-type for °C and °F measurements

Duty cycle (On-Off Ratio)

For measuring feedback on carburetors and EGR valves

Splash Proof Case

For harsh environments

Protective Holster

Increases instrument durability

Fire Retardant Case

Higher safety



Auto Power Off

Extends battery life

Data Hold

Freezes the display value for convenient reading

Relative Zero Mode

For easier and convenient comparative measurements

Audible Continuity Test

Quick open/short circuit testing on switches, fuses, relays, wires, etc.

50 mS Recording

Captures fast changing voltages (i.e. Oxygen Sensor), Max, Min, Max-Min and Average readings

Inductive RPM Pickup

For DIS, 2 stroke waste ignition, and conventional 2 and 4 stroke engines

LVD Safety Standard

Meets EN61010-1 Cat II

CT8027 Specifications

Special Features:

Display: Digital/ Analog
 Record: High speed 50 mS autoranging Min., Max., Min-Max and Average readings
 Relative: Autoranging relative zero readings
 Trigger: Selectable +/- slope.
 Hold: Display data hold function
 Function: Manual/ Auto Ranging Selection
 Cylinder: 9 selectable number of cylinders in Dwell Function
 RPM: Selectable for D.I.S., and 4 and 2 Cyl.

Display Features:

4 digits 9999 counts LCD
 4 updates/second
 42 Segments bar graph analog display
 Backlight

E.M.C.:

Meets EN55011 and EN50082-1

Safety Standards:

Designed to EN61010-1, UL3111-1, CSA C22.2 No. 1010-1 and IEC1010-1 Installation Category II, Pollution degree 1.

Dimensions:

150 mm (L)x 75 mm (W) x 34mm (H)
 160x82x48 with holster.

Accessories Included:

Test leads (red and black), inductive pickup, holster, temperature connector adaptor, bead K type temperature probe, battery and user manual.

Weight:

252 gr. (345 gr. with holster).

Electrical Specifications

Accuracy is +/-(% Reading + Number of digits) or otherwise specified, at 23°C+/-5°C and < 75% R.H.
 Overload protection: for mA and A ranges: 10A/250V Fast acting fuse, all other ranges 600V DC/AC rms.

Function	Range	Condition	Accuracy	Remarks
DC Voltage	999.9 mV		0.2% + 3d	Input impedance 10 MΩ, 30 pf nominal. (16 MΩ for 999.9 mV range)
	9.999 V, 99.99 V		0.3% + 3d	
	600.0 V		0.3% + 5d	
AC Voltage	999.9 mV	50 to 200 Hz	2.5% + 5d	Input impedance 10 MΩ, 30 pf nominal. (16 MΩ for 999.9 mV range)
	9.999 mV	50 to 500 Hz	2.5% + 5d	
	99.99 V		2.5% + 5d	
	600.0 V		2.5% + 5d	
DC Current	4000 mA	10 A Continuous, 20 A for 30 seconds maximum	1.2% + 6d	Burden Voltage: 0.03V/A
	10.00 A		0.8% + 4d	
AC Current	4000 mA, 50 to 500 Hz	10 A Continuous, 20 A for 30 seconds maximum	2.5% + 10d	Burden Voltage: 0.03V/A
	10.00 A, 50 to 500 Hz		1.2% + 3d	
Continuity	Bepper sounds when circuit resistance is < 100Ω, turns off when > 700Ω		< 500 mS response time	
Resistance	999.9 Ω	Open Circuit Voltage: < 1.3 VDC (< 2.7 V for 999.9Ω range)	0.5% + 6d	
	9.999 kΩ, 99.99 kΩ		0.5% + 2d	
	999.9 kΩ		0.8% + 2d	
	4.000 MΩ		0.8% + 2d	
	40.00 MΩ		1.5% + 5d	
Diode Test	9.999 V	< 3.3 VDC Test Voltage	0.3% + 3d	
Frequency	9.999 Hz to 20.00 kHz		0.01% + 2d	Sine or square wave
RPM	120 - 20000 RPM	RPM 4	2 RPM	RPM 4 : for 4 strokes. RPM 2: for 2 strokes and DIS
	60 - 10000 RPM	RPM 2	2 RPM	
	30 - 5000	RPM 2 M	2 RPM	
Dwell	0.0 - 360.0°		1.2° /krpm + 1d	9 Selectable No. of cylinders and +/- trigger slopes
	0.0 - 100.0 %		0.04%/krpm/cyl +2d	
Fuel Injector Function	0.05 mS - 250 mS	Single or Multiport Injection	0.05 mS + 1d	Selectable +/- trigger - slopes
	0.0 % - 100.0 %		0.04 % /krpm/cyl + 2d	
Temperature	-20.0°C to 300.0°C / 0°F to 572°F	K type thermocouple	+/- (3°C+1d) / 6°F+2d)	Does not includes thermocouple probe accuracy
	301°C to 500°C / 573°F to 932°F		+/- (2%+1d) / (2%+2d)	



General Technologies Corp.
 #121 - 7350 72nd Street
 Delta, BC V4G 1H9
 Canada

Tel: 604-952-6699
 Fax: 604-952-6690
 Toll Free: 1-800-440-5582
 Web: www.gtc.ca