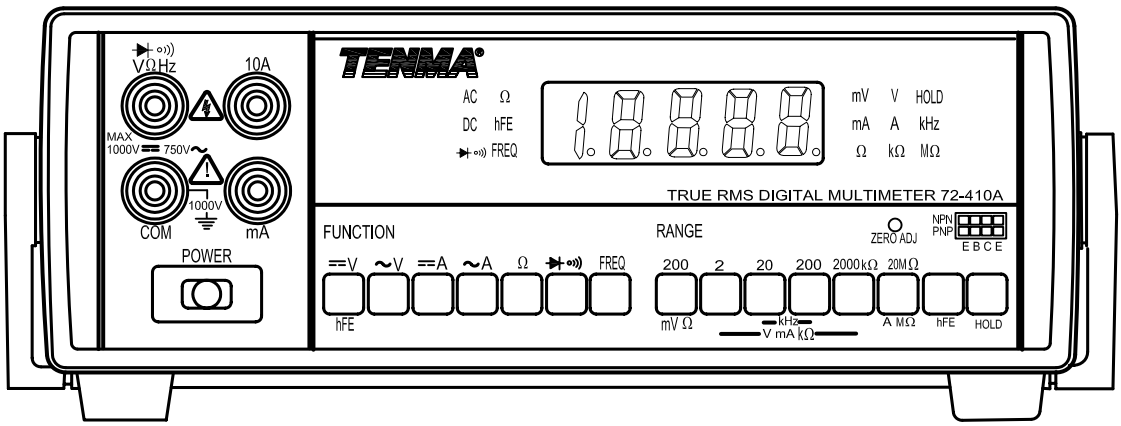
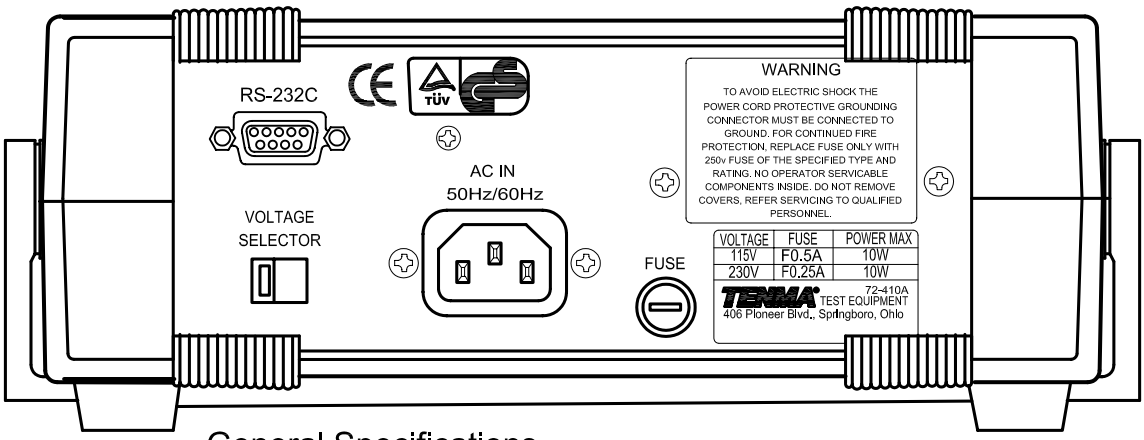
TENMA®	REVISIONS			DOC. NO. SPC-F004 * Effective: 7/8/02 * DCP No: 1398					
	DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	430	A	RELEASED	JWM	11/27/01	HO	11/27/01	DJC	11/27/01
	1739	B	Tolerances updated	JWM	6/15/04	JC	6/15/04	JC	6/15/04





General Specifications

1. $4\frac{1}{2}$ Digit: 20,000 count LED
2. Measurement Rate: 2.5 times/sec.
3. Protection for input overload
4. Dual slop integration A/D converter system
5. Over range indication: Most-significant digit flickers
6. Long-term calibration stability: one year
7. Operating Temp: 0°C ~ 50°C (below 80%)
8. Storage Temp: -20°C ~ 60°C (below 70%)
9. Guaranteed Accuracy: 23°C ±5°C
10. Line Voltage: 103V ~ 126V, 50Hz/60Hz
    206V ~ 252V, 50Hz/60Hz
11. Power Consumption: 10W maximum
12. Dimensions: 25.0cm x 9.25cm x 25.1cm
13. Weight: 1.5kg

SPC-F004.DWG

TOLERANCES:	DRAWN BY:	DATE:	DRAWING TITLE: True RMS Benchtop Digital Multimeter			
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.	Jeff McVicker	11/27/01	SIZE	DWG. NO.	ELECTRONIC FILE	REV
	CHECKED BY:	DATE:	A	72-410A	91F2942.dwg	B
	Hisham Odish	11/27/01	SCALE: NTS	U.O.M.: INCHES [mm]	SHEET: 1 OF 2	
	APPROVED BY:	DATE:				
	Daniel Carey	11/27/01				

Input Terminals and Limits

Function	Input Terminal		Minimum Display Reading	Maximum Display Reading	Maximum Input
V	VΩHz	COM	0.01mV	1000VDC, 750VAC	1000VDC, 750VAC
10A	10A	COM	0.001A	10A	10A/250V
mA	mA	COM	0.001mA	2000mA	2000mA/250V
Ω	VΩHz	COM	0.1Ω	20MΩ	600VAC/DC (1 min.)
Hz	VΩHz	COM	1 Hz	200KHz	250VAC/DC
Continuity	VΩHz	COM			600VAC/DC
Diode	VΩHz	COM			600VAC/DC (1 min.)
hFE	Socket				

Resolution and Accuracy

Function	Range	Resolution	Accuracy*
DC Voltage	200mV	10μV	±(0.05% + 4dgt)
	2V	100μV	
	20V	1mV	
	200V	10mV	
	1000V	100mV	±(0.15% + 4dgt)
AC Voltage	200mV	10μV	±(0.5% + 20dgt) @ 45Hz~1KHz
			±(0.8% + 10dgt) @ 1KHz~10KHz
			±(1.0% + 10dgt) @ 10KHz~20KHz
			±(3.0% + 30dgt) @ 20KHz~50KHz
	2V	100μV	±(0.5% + 20dgt) @ 45Hz~1Hz
			±(0.8% + 10dgt) @ 1Hz~10KHz
			±(1.0% + 20dgt) @ 10KHz~20KHz
			±(3.0% + 30dgt) @ 20KHz~50KHz
	20V	1mV	±(0.5% + 20dgt) @ 45Hz~1KHz
			±(1.5% + 20dgt) @ 1KHz~10KHz
			±(2.5% + 20dgt) @ 10KHz~20KHz
			±(5.0% + 20dgt) @ 20KHz~50KHz
	200V	10mV	±(0.5% + 20dgt) @ 45Hz~600Hz
			±(2.0% + 20dgt) @ 600Hz and Up
	750V	100mV	±(0.5% + 20dgt) @ 45Hz~600Hz
			±(2.0% + 20dgt) @ 600Hz and Up
DC Current	2mA	0.1mA	±(0.5% + 1dgt)
	20mA	1μA	
	200mA	10μA	
	2000mA	100μA	
	10A	1mA	±(0.75% + 3dgt)
AC Current	2mA	0.1μA	±(1.0% + 10dgt) @ 45Hz~10KHz ±(2.0% + 20dgt) @ 10KHz~20KHz
	20mA	1μA	
	200mA	10μA	
	2000mA	100μA	±(1.0% + 10dgt) @ 45Hz~2KHz
	10A	1mA	
Resistance	200Ω	0.01Ω	±(2.0% + 5dgt)
	2 KΩ	0.1Ω	±(0.2% + 2dgt)
	20 KΩ	1Ω	
	200 KΩ	10Ω	
	2000 KΩ	100Ω	±(0.5% + 2dgt)
	20MΩ	1KΩ	
Frequency	20KHz	1Hz	±(1.0% + 3dgt)
	200KHz	10Hz	±(2.0% + 3dgt)
hFE	Base Current: 3.5μA, VCE: 4.5V Approx.		
Diode	Test Voltage: 4.5V Approx., Maximum test current: 1 mA		
Continuity	Threshold: 200Ω or less		

Temperature coefficient: 0.15 x (spec. ass'y)/°C, [18 °C or] 28 °C

**Accuracy is given as ± (% of reading + number of lest significant digits) at 18°C to 28 °C with relative humidity up to 80% for a period of one year after calibration.*

Sources like small hand-held radio transceivers, fixed station radio and television transmitter, vehicle radio transmitters and cellular phones generate electromagnetic radiation that may induce voltages in the test leads of the multimeter. In such cases the accuarcy of the multimeter cannot be guaranteed due to physical reasons.