

True RMS Digital Multimeter w/ USB Connectivity

DURATOOL

RoHS
Compliant



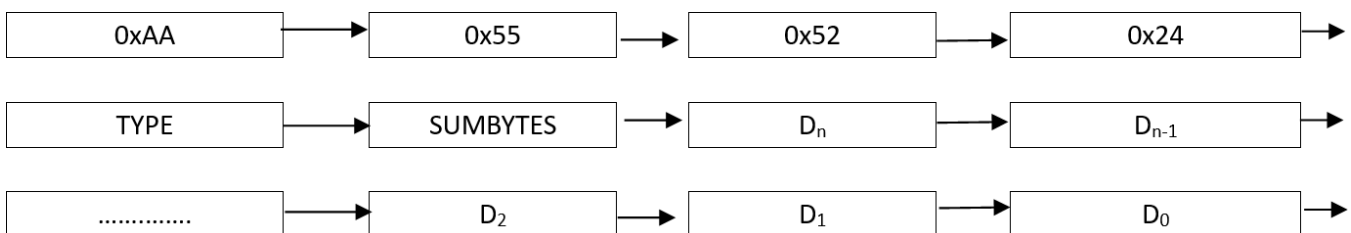
Specification

DMM Functions	: AC/DC Current, AC/DC Voltage, Capacitance, Diode, Duty Cycle, Frequency, Resistance, Temperature
No. of Digits	: 4
DMM Response Type	: True RMS
Display Count	: 6000
Range Selection	: Auto, Manual
Voltage Measure DC Max	: 1kV
Voltage Measure AC Max	: 750V
Current Measure DC Max	: 10A
Current Measure AC Max	: 10A
Resistance Measure Max	: 60MΩ

Features

- True RMS measurement
- 4 Digit, 6,000 count LCD display with backlight
- AC/DC voltage, AC/DC current, resistance, capacitance, frequency, temperature and duty cycle measurements
- Diode and transistor test functions
- Auto and manual ranging
- Audible continuity test
- Max./min. and hold functions
- Power: 4x AA batteries

Data transmission definition



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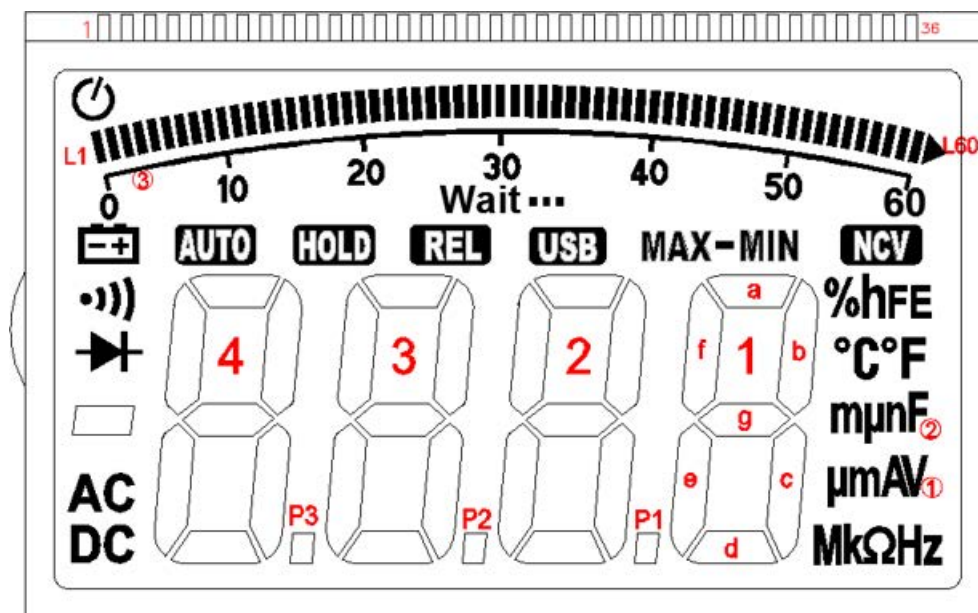
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1. It start from number of digit, the frequency is 2400, no calibration, 8 digit data & one digit stop.
 2. The transmission start from two digit 0xAA, 0x55 It fixed from 0xAA, 0x55
 3. The instruction represent from two digit eg. 0x52, 0 × 24
 4. Type : Transmission data type
 - 0x00 : no definition
 - 0x01 : real time transfer
 - 0x02 : save in meter itself
 - 0x03~0xFF : self definition
 5. Sumbyte : one digit n the digit save at the location called n
 6. D₀~D_n
 - the standard of data: Hex
 - the length of data:15 bytes
 - LCD table on-off information
- 1st byte → 1X (X is seg1, 4 bits represent the data on the LCD table)
 2nd byte → 2X (X is seg2, 4 bits represent the data on the LCD table)
 3rd byte → 3X (X is seg3, 4 bits represent the data on the LCD table..... so on....
 1X → 4 bit, 2X → 4 bit, 3X → 4 bit, FXH → 4 bit
 X: Bit3-Bit 0 → segn (COM3—COM0)

LCD



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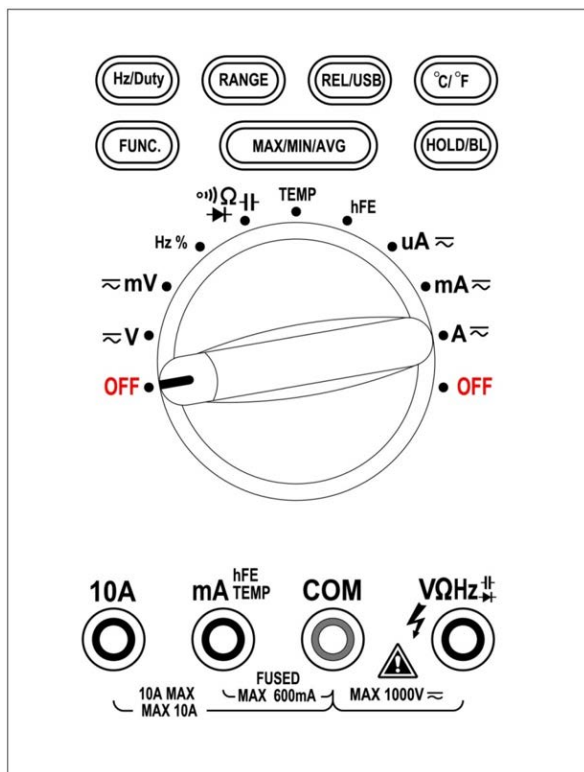
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PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
COM1	COM1				a1	f1	a2	f2	a3	f3	a4	f4	→	⊖	L1	L5	L9	L13	L17	L21	L25	L29	L33	L37
COM2		COM2			b1	g1	b2	g2	b3	g3	b4	g4	AC	⊕	L2	L6	L10	L14	L18	L22	L26	L30	L34	L38
COM3			COM3		c1	e1	c2	e2	c3	e3	c4	e4	DC	⊖	L3	L7	L11	L15	L19	L23	L27	L31	L35	L39
COM4				COM4	d1	p1	d2	p2	d3	p3	d4	p4	□	⊖	L4	L8	L12	L16	L20	L24	L28	L32	L36	L40

PIN	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	
	L41	L45	L49	L53	L57	Wait ...	USB	NCV	°C	m [⊖]	μ [⊕]	M											
	L42	L46	L50	L54	L58	AUTO	MAX	%	°F	μ [⊖]	m [⊖]	k											
	L43	L47	L51	L55	L59	HOLD	-	hFE		n [⊖]	A [⊕]	Ω											
	L44	L48	L52	L56	L60	REL	MIN			F [⊖]	V [⊕]	Hz											

Instrument Panel Schematic diagram



Part Number Table

Description	Part Number
True RMS Digital Multimeter, 750V/ 1000V AC/DC	D03122

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