

## Models 7520DT, 7530DT, 7540DT, 7550DT and 7564SA Functional Specifications

INPUT							
Voltage		115/230 VAC ± 15%, Single Phase, User selection					
Frequency		50/60 Hz ± 5%					
Fuse	Fuse		6.3 Amp 250V Slo-Blo for 7550DT and 7564SA 5 Amp 250V Slo-Blo for 75/20/30/40DT				
DIELECTRIC WITHST	DIELECTRIC WITHSTAND TEST MODE						
Output Rating		5 KV @ 40 mA for 7550DT and 7564SA, 5 KV @ 20mA for 75/20/30/40DT					
		6 KV @ 10 r	mA DC for 75/30/40/50DT and 7564SA				
Output Adjustment		Range:	0 - 5 KV AC				
			0 - 6 KV DC				
		Resolution:	1 volt/step				
		Accuracy:	$\pm$ (2% of setting + 5 volts)				
Ramp-HI	Ramp-HI		12mA peak maximum, ON/OFF selectable				
Charge-LO	Charge-LO		0.0 - 350.0μA DC or Auto set				
HI-Limit A	AC	Range:	0.00 - 40.00 mA for 7550DT and 7564SA, 0.00 - 20.00 mA for 75/20/30/40DT				
		Resolution:	0.01 mA/step				
		Accuracy:	$\pm$ (2% of setting + 2 counts)				
]	DC	Range:	0 - 9999μΑ				
		Resolution:	1μA/step				
		Accuracy:	$\pm$ (2% of setting + 2 counts)				
LO-Limit A	AC	Range:	0.000 - 9.999 mA				
		Resolution:	0.001 mA/step				
		Accuracy:	$\pm$ (2% of setting + 2 counts)				
]	DC	Range:	0.0 - 999.9 μΑ				
		Resolution:	0.1 μA/step				
		Accuracy:	$\pm$ (2% of setting + 2 counts)				
Arc Detection		Range:	1 - 9				
Failure Detector		Audible and	Visual				



Voltage Display	Range:	0.00 - 6.00 KV Full Scale 0.00 - 5.00 KV Full Scale for 7520DT only	
	Resolution:	10 volt/step	
	Accuracy:	$\pm$ (2% of reading + 2 counts)	
Current Display	Auto Range		
AC	Range 1:	0.000mA - 3.500mA	
	Resolution:	0.001mA/step	
	Range 2:	3.00 - 40.00 mA for 7550DT and 7564SA, 3.00 - 20.00 mA for 75/20/30/40DT	
	Resolution:	0.01 mA/step	
DC	Range 1:	0.0 μA - 350.0 μA	
	Resolution:	0.1 μA/step	
	Range 2:	300 μΑ - 3500 μΑ	
	Resolution:	1 μA/step	
	Range 3:	3000 μΑ - 9990 μΑ	
	Resolution:	10 μA/step	
Accuracy:	All Ranges	$\pm$ (2% of reading + 2 counts)	
DC Output Ripple	≤ 4% Ripple	RMS at 6 KV DC @ 3.5 mA, Resistive Load	
Discharge Time	≤ 200 ms		
Maximum Capacitive	1uF < 1K		
Load DC Mode	0.75 uF < 2K 0.5 uF < 3K		
AC Output Wave Form		Crest Factor = $1.3 - 1.5$	
Output Frequency	Range:	60 or 50 Hz, User Selection	
	Accuracy:	± 1%	
Output Regulation	± (1 % of setting + 5 volts) from no load to full load		
Dwell Timer	Range:	0, 0.3 - 999.9 sec (0 = Constant)	
	Resolution:	0.1 sec increments	
	Accuracy:	$\pm (0.1\% + 0.05 \text{ sec})$	
Ramp Timer	Range:	AC 0.1 - 999.9 sec	
		DC 0.4 - 999.9 sec	
	Resolution:	0.1 sec increments	
	Accuracy:	$\pm (0.1\% + 0.05 \text{ sec})$	



Ground Continuity For 75/20/30/40/50DT	Current : DC 0.1 A $\pm$ 0.01A, fixed Max. ground resistance : 1 $\Omega \pm$ 0.1 $\Omega$ , fixed				
Ground Fault Interrupt	GFI Trip Current: 450 μA max (AC or DC) HV Shut Down Speed: < 1ms				
INSULATION RESISTANCE TEST MODE Model 75/30/40/50DT, 7564SA					
Output Voltage	Range:	100 - 10	00 Volts DC		
	Resolution:	1 volt/ste	ер		
	Accuracy:	$\pm$ (2% of	f reading + 2 volts)		
Short Circuit Current	Maximum: 12mA peak				
Voltage Display	Range: 0 - 1000 V				
	Resolution:	1 volt/ste	ер		
	Accuracy:	$\pm$ (2% of reading + 2 counts)			
Resistance Display	Range:	1 - 9999 MΩ (4 Digit, Auto Ranging)			
	Resolution:		500VDC	1000VDC	
		$M\Omega$	$\mathrm{M}\Omega$	$\mathrm{M}\Omega$	
		0.001	1.000 - 5.388	1.000 - 9.999	
		0.01	1.40 - 53.88	2.80 - 99.99	
		0.1	14.0 - 538.8	28.0 - 999.9	
		1	104 - 9999	280 - 9999	
	Accuracy:	$\pm$ (2% of	f reading + 2 count	s) at test voltage	
		$500$ - $1000V$ and 1 - $1000~M\Omega$		$\Omega$	
		$\pm$ (8% of	f reading + 2 count	s) at test voltage	
		500 - 100	00V and 1000 - 99	99 ΜΩ	
		$\pm$ (8% of reading + 2 counts) at test voltage		s) at test voltage	
		$100$ - $500V$ and $0$ - $1000~M\Omega$			
Charge-LO	Range:	0.000 - 3.500μA or Auto Set			
HI-Limit	Range:	$0 - 9999 \mathrm{M}\Omega  (0 = \mathrm{Off})$			
LO-Limit	Range:	1 - 9999 ΜΩ			
Delay Timer	Range:	0, 0.5 - 999.9  sec  (0 = Constant)			
	Resolution:	0.1 sec/s	tep		
	Accuracy:	± (0.1%	+ 0.05 sec)		
Ground Fault Interrupt	GFI Trip Cu HV Shut Do		-	(AC or DC)	



ROUND BOND TEST M	OUND BOND TEST MODE Model 7564SA only				
Output Voltage	Range:	3.00 - 8.00 Volts AC			
(Open Circuit Limit)	Resolution:	0.01 volt/step			
	Accuracy:	$\pm$ (2 % of Setting + 0.03V ) O.C. Condition			
Output Frequency	Range:	60 or 50 Hz, User Selection			
	Accuracy:	±1%			
Output Current	Range:	3.00 - 30.00 Amps AC			
	Resolution:	0.01 Amp/step			
	Accuracy:	$\pm$ (2 % of Setting + 0.02 A)			
Current Display	Range:	0.00 - 30.00 Amps			
	Resolution:	0.01 Amp/step			
	Accuracy:	$\pm$ (3 % of Reading + 0.03 A)			
Resistance Display	Range:	0 - 600 mΩ			
	Resolution:	1 mΩ/step			
	Accuracy:	$\pm$ (2 % of Reading + 2 m $\Omega$ )			
HI-Limit	Range:	$0$ - $600 \text{ m}\Omega$ for $3$ - $10 \text{ A}$			
		$0$ - $150~\text{m}\Omega$ for $3$ - $30~\text{A}$			
	Resolution:	1 mΩ/step			
	Accuracy:	$\pm$ (2 % of Setting + 2 m $\Omega$ )			
LO-Limit	Range:	0 - 600 mΩ for 3 - 10 A			
		$0$ - $150 \text{ m}\Omega$ for $3$ - $30 \text{ A}$			
	Resolution:	$1 \text{ m}\Omega/\text{step}$			
	Accuracy:	$\pm$ (2 % of Setting + 2 m $\Omega$ )			
Dwell Timer	Range:	0, 0.5 - 999.9 sec (0 = Constant)			
	Resolution:	0.1 sec/step			
	Accuracy:	$\pm (0.1\% + 0.05 \text{ sec})$			
Milliohm Offset	Max. Offset Capability:	200 mΩ			
	Resolution:	$1 \text{ m}\Omega$ / step			
	Accuracy:	$\pm$ (2 % of Setting + 2 m $\Omega$ )			



GENERAL SPECIFICATIO	GENERAL SPECIFICATIONS				
PLC Remote Control	Input - Test, Reset, Recall memory #1, #2 and #3				
	Output - Pass, Fail, Test-in-Process				
Memory	Allows storage of up to 50 groups different test programs and 8 step/each memory. Step is not available on 7520DT				
Security	Programmable password lockout capability to avoid unauthorized access to test set-up program.				
LCD Contrast Setting	9 ranges set by the numeric keys on the front panel.				
Buzzer Volume Setting	10 ranges set by the numeric key on the front panel.				
Calibration	Software and adjustments are made through front panel.				
Mechanical	Bench or rack mount with tilt up front feet.				
Dimension	7540DT, 7550DT and 7564SA:				
	(W x H x D) 17 x 5.8 x 20.3 in. (432 x 147 x 515 mm)				
	7520DT and 7530DT:				
	(W x H x D) 17 x 5.8 x 12 in. (432 x 147 x 305 mm)				
Weight	7564SA without scanner 52.5 lbs (24 Kgs)				
	7564SA with built-in scanner 57.0 lbs (26 Kgs)				
	7550DT without scanner 50.5 lbs (23 Kgs)				
	7550DT with built-in scanner 55.0 lbs (25 Kgs)				
	7540DT with 4 port scanner 39.6 lbs (18 Kgs)				
	7540DT with 8 port scanner 41.8 lbs (19 Kgs)				
	7530DT scanner not available 24.8 lbs (11.27 Kgs)				
	7520DT scanner not available 24.8 lbs (11.27 Kgs)				
Scanner Port	Two Port Maximum including the built-in scanner.				
	Not available on 7520DT, 7530DT and 7540DT.				
Scanner	High Voltage x 4 Ports (7540DT only)				
Built-in Option	High Voltage x 8 Ports (75/40/50DT and 7564SA)				
	Ground Bond x 8 Ports (7564SA only)				