②WS Technologies Inc. Innovation and Quality

BT100AV series

"Satellite processing of 121/243MHz emergency beacons terminates on February 1, 2009" COSPAS SARSAT SECRETARIAT

Are you ready for 406 MHz technology?

The BT100AV is the proven leader in ELT Testers. This tester packs a whole lot of measurement capability into a very small package. Use this instrument for all of your ELT testing needs: code verification, annual inspections and certifications, and even for troubleshooting! In fact, the majority of beacon manufacturers are using this instrument on their production lines! Test existing 121/243 ELTs and all 406 ELTs (also EPIRBs and PLBs!). Perform annual ELT inspections with using expensive equipment.



Beacon Tester

(P)

ELT Serial SLP Protocol

BeaconTester

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Next

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Comply with FAA Part 91.207, CAR 571 Appendix G, and CAA Euro CAE requirements for ELT inspections. Make sure the ELTs you are testing are operating properly by testing them thoroughly!

Discover the power of the this tester for yourself ... try the online interactive demo at www.wst-inc.ca

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	Beacon Testers				ELT Testers			
BT100 ser				BT	00A	/ serie	es	
SPECIFICATIONS				ple	e			
				lob	Ľ,	\mathbf{s}		
		∢	s	Ā		AV		
PARAMETER		00	00	8	8	00	ACCURACY	
		E	E	E	E	E		
406 MHz MEASUREMENTS		ш	H	-	m	H		
Measure all Cospas-Sarsat Frequency Channels		٠	•		•	•		
Decode all Cospas-Sarsat Protocols		٠	•		•	•		
UIN & Full HEX		٠	•		•	•		
Frequency (using INT REF) (resolution = 100 Hz)								
Leaving Factory		٠	•		•	•	± 100 Hz	
Long Term Erroquonov (using EVT DEE) (resolution = 1 Hz)		-	-	<u> </u>		-	± 0.4 ppm/year	
* Nominal Engeneration		•	•	<u> </u>	•	•	± 1 fiz	
Short Term			•	<u> </u>	<u> </u>	•		
Signature Maan Slone			•	<u> </u>		•	± 2.5 x 10 ⁻¹¹	
Medium Term - Residual			•	<u> </u>	<u> </u>	•		
Power		•	•	-		•	±1.4D	
Power Rise Time		•	•	-	•	-	± 0.5 ms	
Phase Modulation		•	•		•	•	± 0.5 ms	
Modulation Dise and Fall Times		•	•		•	•	± 0.04 Tau	
Modulation Kise and Fail Times		•	•		•	•	± 10 µs	
Modulation Symmetry Medulation Dit Date		•	•	<u> </u>	•	•	± 0.005	
CW Preemble		•	•	<u> </u>	•	•	± 0.2 bps	
CWITEAMOR			•		•	•	1 0.0 ms	
121.5 MHz/243 MHz MEASUREMENTS								
121.5 MHz Frequency (using INT REF) (resolution = 100 Hz)								
Leaving Factory		٠	•	•	•	•	± 100 Hz	
Long Term				<u> </u>			± 0.4 ppm/year	
243 MHz Frequency (using INT REF) (resolution = 100 Hz) Leaving Factory							± 100 Hz	
Long Term				•	•	•	± 0.4 nnm/year	
121. 5 MHz Frequency (using EXT REF) (resolution = 1 Hz)		•	•	•	•	•	± 30 Hz	
243 MHz Frequency (using EXT REF) (resolution = 1 Hz)				•	•	•	± 30 Hz	
121.5 MHz Peak Power		•	•	•	•	•	± 1.5 dB	
243 MHz Peak Power				•	•	•	± 1.5 dB	
Sweep Direction		٠	•	•	•	•	✓	
Audio Frequency		٠	٠	•	•	•	± 30 Hz	
Sweep Range		٠	٠	•	•	•	± 60 Hz	
Duty Cycle		٠	٠	•	•	•	±2%	
Modulation Factor		٠	٠	•	•	•	±5%	
Sweep Repetition Rate		٠	٠	•	•	٠	± 0.1 Hz	
Listen to Real-Time 121.5 Audio				•	•	•	1	
Listen to Real-Time 243 Audio				•	•	•	1	
Decipher Morse Code				•	•	•	✓	
MISCELLANEOUS								
Granhie 406 Power During Rurst screen								
Graphic 406 Phase Modulation screen		•	•		•	•		
Graphic 406 In-Band Spectrum screen		•	•		•	•		
User-defined Cable Loss factors at each frequency		•	•	•	•	•		
		-	-		-	-		
RF Input Cable		٠	٠	•	•	•		
Reference Input Cable		٠	•	•	•	•		
Zipper Pouch		٠	•	•	•	•		
Operator's Manual		٠	•	•	•	•		
Certificate of Calibration (with Calibration Data)		٠	•	•	•	•		
Hard Case		٠	•	•	•	•		
Personal Data Assistant (PDA)		٠	•	•	•	•		
AC Adapter		٠	•	•	•	•		
Activesync Cable		•	•	•	•	•		
PDA User's Guide		٠	•	•	•	•		
RF Range (using Internal Antenna): 406 MHz	>15 m							
121.5 MHz/243 MHz	>3 m							
RF Input VSWR	1.10:1							
RF Input Level: 406 MHz Burst	-13 dBm M	Min			+4	40 dF	3m Max	

121.5 MHz/243 MHz	>3 m				
RF Input VSWR	1.10:1				
RF Input Level: 406 MHz Burst	-13 dBm Min	+40 dBm Max			
121.5 MHz/243 MHz	-28 dBm Min	+30 dBm Max			
10 MHz REF Input VSWR	1.15:1				
10 MHz REF Input Level	-10 dBm Min	+10 dBm Max			
Operating Temperature Range	0°C to +50°C				
Storage Temperature Range	-20°C to +60°C				
Internal Temperature Sensor Accuracy	± 0.5°C				
RF Input Cable Termination	BNC-female				
10 MHz REF Cable Termination	SMA-female				
Dimensions: BT100 w x l x h mm (inches)	43.5 (1.71) x 58.5 (2.30) x 12.7 (0.50)				
BT100 in PDA wxlxh mm (inches)	77.0 (3.03) x 140.0 (5.51) x 17.0 (0.67)				
Hard Case w x l x h mm (inches)	324 (12.75) x 273 (10.75) x 114 (4.50)				
* User must supply a stable 10MHz Reference Signal	Specifications subject to change without notice.				



WS Technologies Inc.'s line of advanced Beacon Testers are rapidly becoming the de facto Beacon Testers worldwide. These testers were developed in Canada by a staff that has extensive experience in the development and manufacturing of 406 ELTs, EPIRBs and PLBs. Not only does WST offer the most advanced and comprehensive testers available, we offer unprecedented support for beacon testing issues.

Three ELT Tester models to choose from:

BT100AVdouble:

• measure 121 MHz and 243 MHz – no 406

BT100AVtriple:

• decode and measure 406/121.5/243 MHz

BT100AVS:

• measure 406/121/243 MHZ plus 406 frequency stability

All models are fully upgradeable ... order the BT100AV*double* now and upgrade to 406 capability in the future ... remotely!

Distributed By:

Developed and Manufactured in Canada By:

WS Technologies Inc.

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