

ATS3000A "Production-ready with the diagnostic, parametric, and functional testing of today's electrical-communication systems"



Astronics DME Corporation is proud to introduce the ATS3000A, representing the third generation in the evolution of the ATACTS product. The ATS3000A is designed using Astronics DME's proven Synthetic Instrumentation (SI) architecture. It can be used as a standalone or automated system with easy to use graphical user interfaces. The ATS3000A is capable of testing legacy, current and future software-defined radios, as well as power amplifiers, couplers and other electronic equipment.

FEATURES

- · Software defined, synthetic architecture
- 21+ Meters and Instruments
- Field Upgradeable
- Real-time, Programmable IF Bandwidth from 100Hz to 8 MHz
- IQ Synthesis and Analysis via IQ_{EZ}TM
- Standalone, Automated test capabilities
- Removable UUT interface module for Future ATE communications

Key Specifications

A U T O M A T E D T E S T I N G

Providing automatic diagnostic, parametric, and functional support including:

- Thales MBITR Series
- Harris Falcon II Series
- Harris Falcon III Series
- Raytheon EPLRS and Microlight
- Other radio products Ask for more details

SIZE

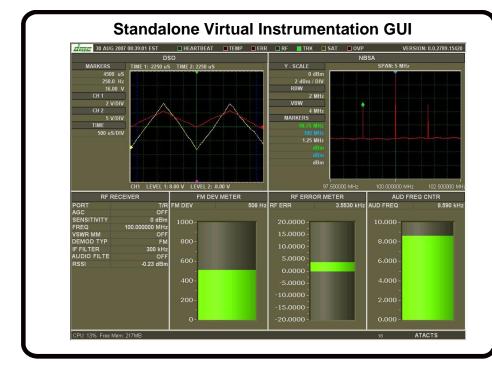
Dimensions

7.5"h x 17.0"w x 20.5"d Weight < 37 lbs.



Software Defined Reconfigurable Technology





TestExecutive.vi							
jle Edit Attributes Mode Help							
UUT: TF-2000A SELF TEST	IDLE	[Station Mode] [Force Go]					
Clear 5	elect All	SELECT	Single Ste	ър (ode Assist	Attribute	
Self Test Cable Connections Entry P		A RUN	FORCE GO		robe Assist	Station	
Front Panel Keypad/Speaker Entry F	oint	PRINT	Test Stee		ARCHIVES	ABORT	
FP DMM V/Ohms/Amps Entry Point			Test stee	·	ARCHIVES	ABUKT	
FP Baseband/Audio OUT/DSO Entry	Point	EXIT	HANG		DECUMENT	HELP	
Test Name		Lower	Results	Units	Status	%Dev	
T0010:FRONT PANEL KEYPAD	PASS	PASS	PASS	NA	PASS	NA	
T0015:DDS1_OUT TO SPEAKER T0020:DSP_DAC2_LP_TO SPEAKER	YES	YES	YES	NA NA	PASS	NA NA	
FP DMM V/Ohms/Amps Entry Point							
FP DMM V/Ohms/Amps Entry Point T0050:FP DMM V/OHMS INPUT	N/A	2.000	0.000	ADC	FORCE GO	NA	
 FP DMM V/Ohms/Amps Entry Point T0050:FP DMM V/OHMS INPUT T0055:FP DMM COM	-2.000	N/A	0.000	VDC	FORCE GO	NA	
FP DMM V/Ohms/Amps Entry Point T0050:FP DMM V/OHMS INPUT T0055:FP DMM COM							
FP DMM V/Ohms/Amps Entry Point T0050:FP DMM V/OHMS INPUT	-2.000 0.060	N/A	0.000	VDC	FORCE GO	NA	
P DMM V/ohms/Amps Entry Point T0050:FP DMM V/OHMS INPUT T0055:FP DMM COM T0055:FP DMM COM FP Baseband/Audio OUT/DSO Entry T0100:FPBB TO DSO CH1,3.5VEMS	-2.000 0.060	N/A	0.000	VDC	FORCE GO FORCE GO	NA	
 P DAMM V/Ohms/Amps Entry Point T0055:FP DAMM COM T0055:FP DAMM AMPS FP Baseband/Audio OUT/DSO Entry T0100:FPBB TO DSO CH1,3.5VRMS T0105:FPB TO DSO CH1,3.5VRMS	-2.000 0.060 Point 3.675 21.77	N/A 0.040 3.325 17.80	0.000 0.000 0.000 0.000	VDC amp Vrms Vpp	FORCE GO FORCE GO FORCE GO	NA >100% >100% >100%	
TO Dead V/ohms/Amps Entry Point T0055:FP Dead V/OHMS INPUT T0055:FP Dead COM T0055:FP Dead COM FP Baseband/Audio OUT/DSO Entry T0100:FPBB TO DSO CH1,3.5VEMS T0105:FPAD TO DSO CH2,19.8VPP T01010:FPBB TO DSO CH2,0.8VPMS	-2.000 0.060 Point 3.675 21.77 0.105	N/A 0.040 3.325 17.80 0.060	0.000 0.000 0.000 0.00 0.00	VDC amp Vrms Vpp Vrms	FORCE GO FORCE GO FORCE GO FORCE GO	NA >100% >100% >100% >100%	
 FP DAMM V/Ohms/Amps Entry Point T0055:FP DAMM COM T0055:FP DAMM CAM T0055:FP DAMM AMPS FP Baseband/Audio OUT/DSO Entry T0105:FPB TO DSO CH1,3.5VRMS T0105:FPB TO DSO CH2,19.8VFP T0115:FPB TO DSO CH2, 19.28VFMS T0115:FPB TO DSO CH2, 19.28VFMS	-2.000 0.060 Point 3.675 21.77 0.105 0.280	N/A 0.040 3.325 17.80 0.060 0.140	0.000 0.000 0.000 0.00 0.000 0.000	VDC amp Vrms Vpp Vrms Vpp	FORCE GO FORCE GO FORCE GO FORCE GO FORCE GO	NA >100% >100% >100% >100% >100%	
P DMM V/ohms/Amps Entry Point T0050:FP DMM V/OHMS INPUT T0055:FP DMM COM T0055:FP DMM COM FP Baseband/Audio OUT/DSO Entry T0100:FPBB TO DSO CH1,3.5VEMS	-2.000 0.060 Point 3.675 21.77 0.105	N/A 0.040 3.325 17.80 0.060	0.000 0.000 0.000 0.00 0.00	VDC amp Vrms Vpp Vrms	FORCE GO FORCE GO FORCE GO FORCE GO	NA >100% >100% >100% >100%	

Product Highlights

INSTRUMENTS

- Audio Generator
- RF Generator and Receiver
- I/Q Generation

METERS

- RF Power, Phase, AM,
 FM and Digital
- Constellation Diagram
- Spectrum Analyzer
- Oscilloscope (DSO)
- Error Vector (EVM)
 Meter
- Digital MultiMeter
 (DMM)
- Cable Fault
- Audio Analysis
- RSSI
- RF Frequency Error



Actual product specifications may have changed since the printing of this brochure. Brochure specifications are not binding. Confirm current specifications at time of order.

Astronics DME Corporation 12889 Ingenuity Drive Orlando, Florida 32826 www.astronics.com



ATS3000P "What you need, when you need it; reducing cost and increasing throughput where it matters the most"



The ATS3000P provides technicians system level, front-line diagnostic capabilities, offering unambiguous fault detection and isolation. It combines the operational capability (stimulus and response metering and measurement) of many different test instruments into a single, powerful, compact unit. The sophisticated virtual instrument graphical user interface provides maximum operational capability for advanced users, while maintaining an intuitive, easy-to-use interface for the basic technician.

FEATURES

P

- Field Level Maintenance Device
- One-man Portable
- Battery Operated
- Software defined, Synthetic Architecture
- Virtual Instrument Graphical User Interfaces
- Field Upgradeable
- Automated, Standalone Test Capabilities
- 21+ Meters and Instruments



Software Defined Reconfigurable Technology

Key Specifications

SIZE

Dimensions 4.0"h x 12.0"w x 13.5"d (without laptop) 6.0"h x 12.0"w x 13.5"d (with laptop) Weight

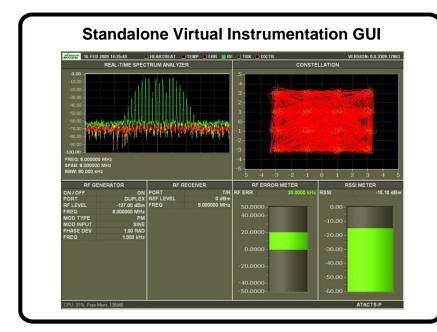
< 13 lbs. (without laptop) < 18 lbs. (with laptop)

U S E R I N T E R F A C E

Display

Size 10.4", Sunlight Readable Resolution 1024 x 768 XGA Touch Screen







M w 100 11 1						
TestExecutive.vi ile Edit Attributes Mode Help						
UUT: TF-2000A SELF TEST	IDLE		In	ation Model	(T C1	
			[51	acion Mode)	(Force Go)	
Clear	Select All	SELECT	Single S	tep 0	ode Assist	Attributes
Self Test Cable Connections Entry I		A RUN	EORCE	60 0	robe Assist	Station
Front Panel Keypad/Speaker Entry			TOKCE		TODE Assist	Station
FP DMM V/Ohms/Amps Entry Point		PRINT	Test St	eer	ARCHIVES	ABORT
FP Baseband/Audio OUT/DSO Entry	/ Point	EXIT	HAN	3	DOCUMENT	HELP
Test Name	Upper	Lower	Results	Units	Status	%Dev
Test Name		Lower	Results	Units	Status	%Dev
TOOL FUNCTION REPART OF THE TOOL FRONT PANEL KEYPAD	PASS	PASS	PASS	NA	PASS	NA
TIONT TANEL REYPART DEARCT DATE T0010:FRONT PANEL KEYPAD T0015:DDS1_OUT TO SPEAKER	PASS YES	PASS YES	PASS YES	NA NA	PASS PASS	NA NA
TIONC FUNCT REYPING OPENNEL ENCL T0010:FRONT PANEL KEYPAD	PASS	PASS	PASS	NA	PASS	NA
TOOLO:FRONT PANEL KEYPAD T0010:FRONT PANEL KEYPAD T0015:DDS1_OUT TO SPEAKER	PASS YES	PASS YES	PASS YES	NA NA	PASS PASS	NA NA
TONC FUNCT REAPAN SPEARCE ENCL T0010:FRONT PANEL KEYPAD T0015:DDS1_OUT TO SPEARER T0020:DSP_DAC2_LP TO SPEAKER	PASS YES	PASS YES	PASS YES	NA NA	PASS PASS	NA NA
TOOIO:FRONT PANEL KEYPAD TOOIO:FRONT PANEL KEYPAD TOOIO:DSI OUT TO SPEAKER TOO20:DSP_DAC2_LP TO SPEAKER FP DMM V/Ohms/Amps Entry Point TOO50:FP DMM V/OHMS INPUT TOO55:FP DMM COM	PASS YES YES N/A -2.000	PASS YES YES 2.000 N/A	PASS YES YES 0.000 0.000	NA NA NA	PASS PASS PASS	NA NA NA NA
TOOID:FRONT PANEL KEYPAD TOOID:FRONT PANEL KEYPAD TOOID:FDOSI OUT TO SPEAKER TOO20:DSP_DAC2_LP TO SPEAKER FP DMM V/Ohms/Amps Entry Point TOO50:FP DMM V/OHMS INPUT	PASS YES YES N/A	PASS YES YES 2.000	PASS YES YES 0.000	NA NA NA	PASS PASS PASS FORCE GO	NA NA NA
TOOIO:FRONT PANEL KEYPAD TOOIO:FRONT PANEL KEYPAD TOOIO:DSI OUT TO SPEAKER TOO20:DSP_DAC2_LP TO SPEAKER FP DMM V/Ohms/Amps Entry Point TOO50:FP DMM V/OHMS INPUT TOO55:FP DMM COM	PASS YES YES N/A -2.000 0.060	PASS YES YES 2.000 N/A	PASS YES YES 0.000 0.000	NA NA NA VDC VDC	PASS PASS PASS FORCE GO FORCE GO	NA NA NA NA
TOOID:FRONT PANEL KEYPAD TOOID:FRONT PANEL KEYPAD TOOID:DDSI_DUT TO SPEAKER TOO20:DSP_DAC2_LP TO SPEAKER FP DMM V/Ohms/Amps Entry Point TOO50:FP DMM V/OHMS INPUT TOO55:FP DMM COM TOO55:FP DMM AMPS FP Baseband/Audio OUT/DSO Entry	PASS YES YES N/A -2.000 0.060	PASS YES YES 2.000 N/A	PASS YES YES 0.000 0.000	NA NA NA VDC VDC	PASS PASS PASS FORCE GO FORCE GO	NA NA NA NA
TOOID:FRONT PANEL KEYPAD TOOID:FRONT PANEL KEYPAD TOOID:SIDSI OUT TO SPEAKER TOO20:DSP DAC2 LF TO SPEAKER FP DMM V/Ohms/Amps Entry Point TOO50:FP DMM V/OHMS INPUT TOO55:FP DMM COM TOO55:FP DMM AMPS	PASS YES YES N/A -2.000 0.060 Point	PASS YES YES 2.000 N/A 0.040	PASS YES YES 0.000 0.000 0.000	NA NA NA VDC VDC amp	PASS PASS PASS FORCE GO FORCE GO FORCE GO	NA NA NA NA >100%
TONC FUNCT ROLF NCYPON OF OWNER FUT TOUIS:FRONT PAREL KEYPAD TOUIS:DBS JOUT TO SPEAKER TOU20:DSP DAC2_LP TO SPEAKER FP DMM V/OHMS/Amps Entry Point TOU50:FP DMM V/OHMS INPUT TOU50:FP DMM CAMB FP Baseband/Audio OUT/DSO Entry TO100:FPBB TO DSO CH1.3.5YRMS	PASS YES YES N/A -2.000 0.060 Point 3.675	PASS YES YES 2.000 N/A 0.040 3.325	PASS YES YES 0.000 0.000 0.000	NA NA NA VDC VDC amp Vrms	PASS PASS PASS FORCE GO FORCE GO FORCE GO	NA NA NA >100%
TOTO FUNCT REAL REYPAD TODIS: DBJ OUT TO SPEAKER TODIS: DBJ OUT TO SPEAKER TOD20: DSP_DAC2_LP TO SPEAKER FP DMM V/OHms/Amps Entry Point TOD50: FP DMM V/OHMS INPUT TOD50: FP DMM COM TOD50: FP DMM AMPS FP Baseband/Audio OUT/DSO Entry TO100: FPBB TO DSO CH1,3.5VRMS TO105: FPBO TO DSO CH2,19.8VPB TO1101: FPBB TO DSO CH2,0.2620PT TO115: FPBB TO DSO CH2,0.2022	PASS YES YES N/A -2.000 0.060 Point 3.675 21.77 0.105 0.280	PASS YES YES 2.000 N/A 0.040 3.325 17.80 0.060 0.140	PASS YES YES 0.000 0.000 0.000 0.000 0.000 0.000	NA NA NA VDC VDC amp Vrms Vpp Vrms Vpp	PASS PASS PASS FORCE GO FORCE GO FORCE GO FORCE GO FORCE GO	NA NA NA >100% >100% >100% >100%
TOTO:FRONT PANEL KEYPAD TOTO:FRONT PANEL KEYPAD TOTS:DDS1_OUT TO SPEAKER TO20:DBS_DZC2_LP TO SPEAKER FP DMM V/Ohms/Amps Entry Point TO050:FP DMM V/OHMS INPUT TO055:FP DMM COM TO055:FP DMM AMPS FP Baseband/Audio OUT/DS0 Entry TO100:FPBB TO DS0 CH1.3.5YRMS TO105:FPBA TO DS0 CH2.19.8VPB	PASS YES YES N/A -2.000 0.060 Point 3.675 21.77 0.105	PASS YES YES 2.000 N/A 0.040 3.325 17.80 0.060	PASS YES YES 0.000 0.000 0.000 0.000 0.000	NA NA VDC VDC amp Vrms Vpp Vrms	PASS PASS PASS FORCE GO FORCE GO FORCE GO FORCE GO	NA NA NA >100% >100%

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