

Avionics

ATC-5000NG ATC/DME Test Set

AEROFLEX



NextGen Transponder/DME Bench Test Set

The ATC-5000NG is an RF signal generator/receiver for testing Mode A, C and S transponders. The ATC-5000NG was designed with modern software defined radio technology and is the replacement product for the commercial functionality of the SDX-2000, ATC-1400A and S-1403DL. The test set was designed for engineering development, design validation, manufacturing and return-to-service testing.

Key Features and User Benefits

- Generates ATCRBS/Mode S interrogations
- 10.4 inch touch screen LCD display for operator control of all test set capabilities
- Remote controlled via GPIB or Ethernet
- Optional Command set emulation for SDX-2000, ATC-1400A and S-1403DL
- Software-driven design allows for field updates for adding new features, capability or modifications due to industry changes
- ADS-B squitter encode/decode
- DO-260, DO-260A and DO-260B data parsing
- Two independent transmitters and receivers
- TX/RX data logging capability
- Full diversity testing capability
- Data parsing in engineering units
- Pulse and frequency measurement
- UAT TX/RX capability (optional)

TRANSPONDER MODE SPECIFICATIONS

TRANSMITTER

Frequency

Range	965 MHz to 1095 MHz
Resolution	100 KHz
Accuracy	±10KHz

Power

Range	-10 to -90 dBm
Resolution	1 dB
Accuracy	±1 dB @ 1030 MHz
Port	Top and Bottom

Pulse Modulation

Accuracy	±0.05 uSec
On/Off Ratio	>80 dB
Rise/Fall Time	<100 nS
External Pulse Modulation	

1090/978 RECEIVER

VSWR <1.4

Max Input Power +57 dBm

Dynamic Range 40 dB

Dual Receiver Top/Bottom

Power Measurement

Range	+17 to +57 dBm
Resolution	0.1 dB
Accuracy	±1 dB @ 1090 MHz

Frequency Measurement

Resolution	1 KHz
Accuracy	±1 KHz

Pulse Characteristic Measurement

Resolution	10 nS
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PHYSICAL CHARACTERISTICS

Power	115/230 VAC, 50/60 Hz
Height	10.5 inches (26.67 cm)
Width	19 inches (48.26 cm)
Depth	16.5 inches (41.91 cm)
Weight	44 lbs. (19.95 kg)

FUNCTIONAL CHARACTERISTICS

REMOTE INTERFACE

Optional Command set emulation of the SDX-2000, ATC-1400A and S-1403DL

Ethernet

GPIB

INPUTS/OUTPUTS

Suppression bus (front/back)

2 scope BNC outputs (front/back)

LAN (front/back)

USB Type B control (front)

2 USB Type A (front) for HID/flash drives

ORDERING INFORMATION

Order Number	Description
138156	ATC-5000NG Transponder Test Set
138160	ATCNGOPT01 DME Option
138157	ATCNGOPT02 UAT 978MHZ Option
138158	ATCNGOPT04 SDX Command Set Comp
138223	ATCNGOPT05 1400/1403 Command Set Comp

CHINA Beijing

Tel: [+86] (10) 6539 1166
Fax: [+86] (10) 6539 1778

CHINA Shanghai

Tel: [+86] 21 2028 3588
Fax: [+86] 21 2028 3558

CHINA Shenzhen

Tel: [+86] (755) 3301 9358
Fax: [+86] (755) 3301 9356

FINLAND

Tel: [+358] (9) 2709 5541
Fax: [+358] (9) 804 2441

FRANCE

Tel: [+33] 1 60 79 96 00
Fax: [+33] 1 60 77 69 22

GERMANY

Tel: [+49] 89 99641 0
Fax: [+49] 89 99641 160

INDIA

Tel: [+91] 80 [4] 115 4501
Fax: [+91] 80 [4] 115 4502

JAPAN

Tel: [+81] (3) 3500 5591
Fax: [+81] (3) 3500 5592

KOREA

Tel: [+82] (2) 3424 2719
Fax: [+82] (2) 3424 8620

SCANDINAVIA

Tel: [+45] 9614 0045
Fax: [+45] 9614 0047

SINGAPORE

Tel: [+65] 6873 0991
Fax: [+65] 6873 0992

TAIWAN

Tel: [+886] 3 5500 338
Fax: [+886] 3 5502 065

UK Stevenage

Tel: [+44] (0) 1438 742200
Fax: [+44] (0) 1438 727601
Freephone: 0800 282388

USA

Tel: [+1] (316) 522 4981
Fax: [+1] (316) 522 1360
Toll Free: 800 835 2352



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www.aeroflex.com
info-test@eroflex.com