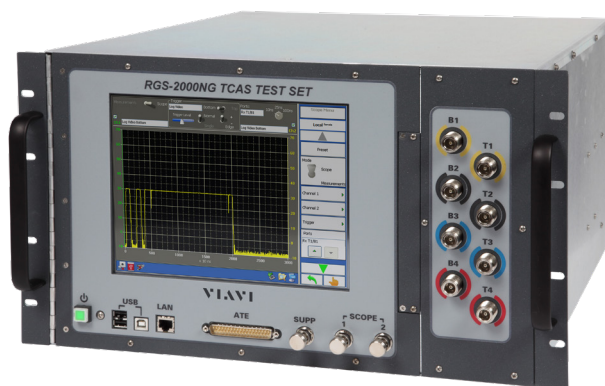VIAVI Solutions

VIAVI
RGS-2000NG

TCAS Test Set and ADS-B Target Generator

Prepare for Global ATC Modernization with NextGen test technology

The RGS-2000NG TCAS Test Set is an RF signal generator/receiver for testing Traffic Alert and Collision Avoidance Systems (TCAS) with an option available for testing transponder LRUs. The RGS-2000NG was designed with modern software-driven digital modulation technology and is the RGS-2000 replacement for engineering development, design validation, manufacturing and return-to-service testing.

Equipment tested includes TCAS computers, ADS-B In receivers (including ground station), ADS-R and TIS-B ground station transmitters, and Mode S/ADS-B Out transponders (with transponder option, RGSNGOPT10).

Features

- Target generation – independently configure up to 600 TCAS, ADS-B, TIS-B, or ADS-R target types (32 dynamic and 568 static)
- Software-driven design allows for field updates to add new features, capability or modifications due to industry changes
- TX/RX data logging capability
- ADS-B squitter encode/decode
- DO-260, DO-260A and DO-260B data parsing
- Pulse and frequency measurement
- TX/RX data logging capability
- Full diversity testing capability

Benefits

- Replacement for the RGS-2000
- Modern architecture design will support NextGen mandates and future standards changes

Applications

- Engineering development, certification, manufacturing and service
- Capable of performing most MOPS tests for DO-185A, DO-185B, DO-260, DO-260A, DO-260B, DO-181E and DO-300

CDIP

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Ordering Information

Versions and Options

Order Number	Description
113956	RGS-2000NG TCAS Test Set (One of the below OEM compatibility options is required)
114343	RGSNGOPT01 - Rockwell Collins compatibility option
114344	RGSNGOPT02 - Honeywell compatibility option
138431	RGSNGOPT03 - Avidyne compatibility option
138453	RGSNGOPT04 - ACSS compatibility option
139362	RGSNGOPT06 - Garmin compatibility option
142994	RGSNGOPT7 Honeywell TXD compatibility option
142995	RGSNGOPT8 Honeywell TPU-67 compatibility option
114342	RGSNGOPT10 - Transponder test option
140109	RGSNGOPT13 - UAT 978MHz Option (requires Transponder Option)
140110	RGSNGOPT14 - Multi-Receiver Option (requires Transponder Option)
140121	RGSNGOPT15 - DO-260B MOPS Test Option (requires Transponder Option and Multi-Receiver Option)

Standard Accessories

114114	Keyboard w/ touch-pad
62302	Power cord, 110V
64020	Power cord set, 220V
139187	Operations Manual (CD)
139190	Getting Started Manual

Optional Accessories

142175	Pelican 1690 Transit Case, RGS-2000NG / ATC-5000NG

Extended Warranty

139170	36 months with scheduled calibration
139171	60 months with scheduled calibration

Physical Characteristics

Dimensions	10.5"H x 19"W x 24"D
	26.7 cm x 48.3 cm x 60.9 cm
Weight	43 lbs. (19.5 kg) test set only
	58 lbs. (26.3 kg) shipping weight
	89 (40.37 kg) shipping weight with optional transit case

Environmental

Temperature

Full specified performance	23°C, +5°C (73.4°F, 41°F)
Operating	0 to +40°C (32° to +104°F)
Storage	0 to +71°C (32° to +159.8° F)
Relative Humidity	0 to 95% non-condensing

Test Set Certifications

CE
UL/EN 61010–1
EN 61326-1
MIL-PRF-28800F (Class 3 Device)