

Oxygen Test Stand for RCF67 Serie

The RCF67 Serie B021 Oxygen Test Bench is designed for MRO maintenance stations looking for a complete test solution for the RCF67 Serie Pressure Regulator Transmitter fitted to aeronautical oxygen cylinders (CMM 35-50-05).

It is used to carry out functional tests (Testing and Isolation Default), during which the equipment's pressure resistance and tightness are first checked, along with its performance in terms of flow and outlet pressure under different conditions of use. It has a high-pressure supply circuit with CGA-540 connection (Inlet Port) and an Outlet circuit with flow adjustment. Connections are available on the front panel for quick assembly and connection of the equipment for each type of test. A dedicated test port allows the LP Valve alone to be tested.

For tests on the RCF67's built-in pressure transmitter, the bench features an electrical test circuit with +28V power supply, power consumption measurement and transmitter signal display (with configuration toggle for measurement pins). For Bonding Resistance tests, a specific test kit can be supplied with the bench.

With these features, the cycle time for a complete test of an RCF67 is less than 30 minutes (including assembly and disassembly of the equipment).

Easy to use and space-saving, the RCF67 Oxygen Test Stand can be easily deployed in most MRO workshops.



POINTS FORTS

- Compact, complete and easily deployable test solution
- Supplied with accessories
- Optional Bonding Resistance kit
- Complete test cycle < 30 min

VIDEO



APPLICATIONS

X	MRO
	TEST R&D
	Étalonnage
	Production
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KEY WORDS

- RCF67 Serie Pressure Regulator Transmitter
- CMM 35-50-05
- RCF67 Serie Test Bench

SPECIFICATIONS TECHNIQUES

Test Capacity	RCF67 Series Pressure Regulator Transmitter		
List of tests	CMM 35-50-05 RCF67 Serie Pressure Regulator transmitter (Safran Aerotechnics)		
	Section "Testing and Fault Isolation"		
	<ul style="list-style-type: none"> - Test of the leakage - Test of Released Pressure and Output Voltage Characteristics - Test of power consumption of the pressure sensor module 	<ul style="list-style-type: none"> - Test of LP Valve - Test of the TEST function - Bonding Resistance Test * - Test of the common mode rejection 	(*) With Bonding test kit option
Equipement connections	<ul style="list-style-type: none"> - 1x HP Port equipped with CGA-540 Oxygen male fitting (for RCF67 Inlet connection) - 1x LP Port equipped with a connecting bloc for LP Valve (equival. to PNR 444-65069-000) - 1x Outlet Port (for exhaust) with AN8 male fitting - Pressure port (for outlet pressure measurement) with AN4 male fitting - 1x Embase électrique MIL-DTL-26482 10 cts 		
Accessories	<ul style="list-style-type: none"> - 1x electrical cord P/N CABL426A (equivalent to PNR 444-65324-000) - 1x Tooling piping P/N TUYA101A with Tee fitting (for connection on RCF67/LP Valve outlet) - 1x Tooling piping P/N TUYA100A (for specific test on LP Valve) 		
Options	<ul style="list-style-type: none"> - 1x Bonding test Kit (with connecting box and digital milliohmeter) 		
Measurement chains	Outlet Flow Range: 12 ... 500 NL/min Accuracy: $< \pm 1\%$ FS		
	RCF67 Inlet Pressure Range: 0 ... 20MPa Accuracy : $< \pm 0.1\%$ FS		
	LP Valve Inlet Test Port Range: 0 ... 2MPa Accuracy : $< \pm 0.1\%$ FS		
	Outlet pressure Range: 0 ... 1MPa Accuracy : $< \pm 0.1\%$ FS		
	Power Supply Range: 0 ... 30VDC Accuracy : $< \pm 0.1$ V		
	Current Consumption Range: 0 ... 200 mA Accuracy : $< \pm 0.1$ mA		
	Voltage Uab/db & Ugh/gh Range: 0 ... 10V Accuracy: $< \pm 0.001$ V		
Functions	<ul style="list-style-type: none"> - Pressure Generation on RCF67 Inlet Port / 0...140barG - Pressure Generation on LP Valve Port / 0...16barG - Outlet flow regulation with manual valve - Pressures and flow measurement - Integrated +28Vdc Electrical supply for RCF67 with measurement of voltage/current and manual toggles and pushbutton for pins selection or shunt 		
PLC HMI & Display	Display of pressure and flow measurement with units conversion on MAP120T PLC Display of electrical measurement on dedicated panel meters		
Electrical Supply	200-240 VAC $\pm 10\%$ - 50/60Hz - 15A electrical network (with 30mA differential protection) Connection on IEC C14 male plug located on the back of the electrical box		
Oxygen Supply	2000 to 3000PSI (137 to 206 bar) with a minimum flow of 700 NL/min Connection on Swagelok Double ferrule compression adapter for 6mm OD tube		
Oxygen Exhaust Circuit	DN32 Inner Diameter (mini) Oxygen Exhaust Piping linked to the outside of the building and compatible with Oxygen Use		
Dimensions	910 x 450 x 520 mm (L x P x H)		
Use temperature	+10 à +40°C		
Storage temperature	+5 à +50°C		
Weight	55kg		

DRAWINGS

