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Application note

PACE 6000-ADC

Introduction

The PACE6000-ADC is a single or twin-channel Ps and Pt pressure control system used for the precision calibration/verification of aircraft pitot-statics, compliant with reduced vertical separation minima (RVSM) requirements and designed to be housed in a laboratory environment, desktop or rackmount.

Why should I buy a PACE 6000-ADC?

The PACE6000-ADC has the same market leading performance in terms of speed to setpoint, control stability, sensor accuracy and volume control as the rest of the PACE range.

Due to the unique and flexible self-contained control module system Units can be reconfigured and expanded quickly and easily to meet any application requirements.

PACE 6000-ADC can be seemlessly integrated into automated systems.

The PACE 6000-ADC also ensures safe operation with go to ground capabilities to avoid damage to the device under test.

Applications:

Fully programmable for a wide range of applications, the PACE6000-ADC enables vital flight instrumentation, such as:

- altimeters,
- airspeed indicators,
- rate of climb indicators,
- mach meters and
- air data computers

to be quickly and accurately tested and verified in a lab based environment.

Lab based calibrator for Pitot Static Testers

Configurations

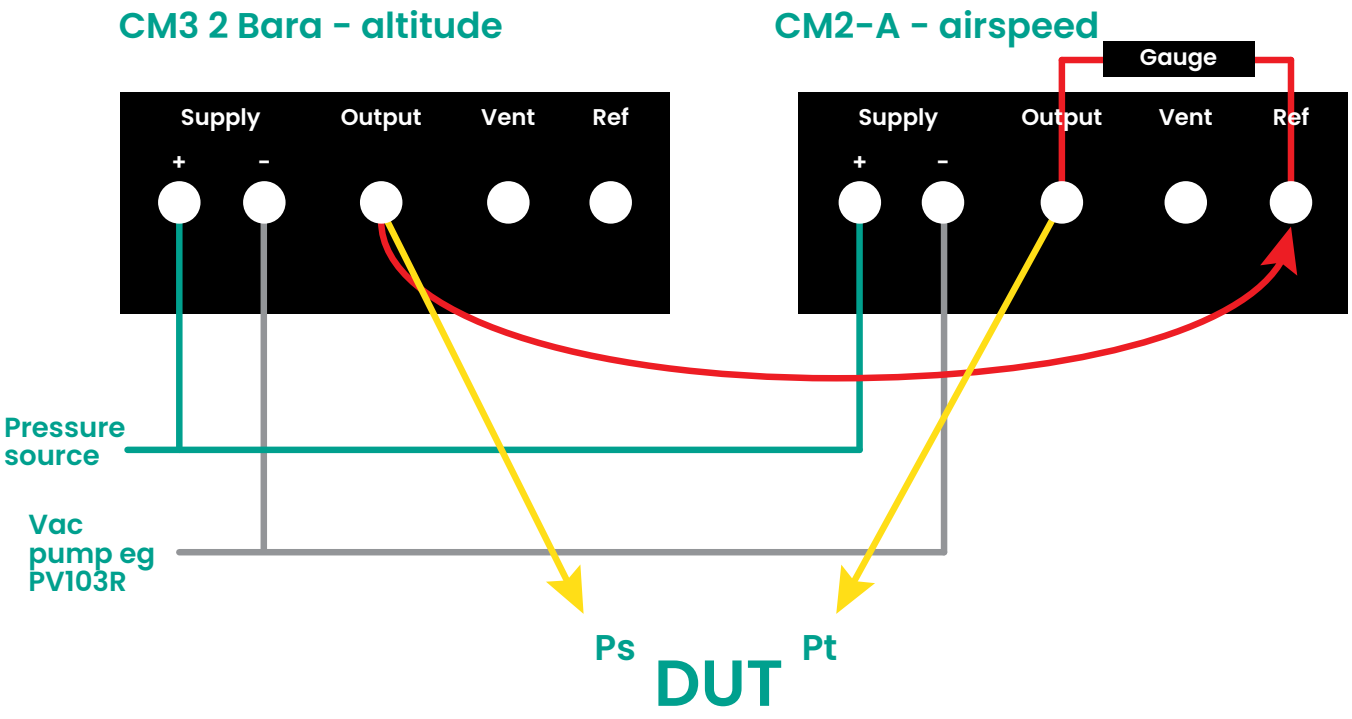
Single-channel:
Using 1x CM2-A module, the PACE 6000-ADTS can be configured as a single channel unit and can provide both altitude and airspeed pressure control individually as a single channel output.

Dual Channel – Standard configuration
Using 1x CM2-A module combined with a CM2 the PACE 6000-ADC provides **simultaneous** Ps and Pt control and measurement as well as rate of climb capabilities.

Dual Channel – Enhanced Accuracy Altitude (EAA)
Using 1x CM2-A module on the Pt channel and 1x 2 Bar CM3 module on the Ps channel the PACE 6000-ADTS provides **simultaneous** Ps and Pt control and measurement as well as rate of climb capabilities but with improved altitude accuracy when compared to a standard configuration.

(other accuracy combinations can be accommodated upon request)

Connection schematic



	Single channel	Dual Channel - Standard accuracy	Dual Channel – Enhanced accuracy
Altitude Range	-3000ft to +55,000ft	-3000ft to +55,000ft	-3000ft to +60,000ft
Altitude RVSM accuracy	@ Sea level ±5 ft	@ Sea level ±5 ft	@ Sea level ±2 ft
	@ 29,000 ft ±25 ft	@ 29,000 ft ±25 ft	@ 29,000 ft ±4 ft
	@ 41,000 ft ±46 ft	@ 41,000 ft ±46 ft	@ 41,000 ft ±6.5 ft
Airspeed Range	To 650 kts	To 650 kts	To 650 kts
Airspeed Precision	@ 50 knots ±1.00 kts	@ 50 knots ±1.00 kts	@ 50 knots ±1.00 kts
	@ 250 knots ±0.21 kts	@ 250 knots ±0.21 kts	@ 250 knots ±0.21 kts
	@500 knots ±0.11 kts	@500 knots ±0.11 kts	@500 knots ±0.11 kts

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