

The Ultrasonic Low Airspeed and Side Slip Probe provides a reliable, accurate and cost-effective low airspeed and directional measurement enhancement in 2 or 3 dimensions, to the Penny & Giles Software Configurable Air Data Unit.

It combines the latest patented advances in ultrasonic technology together with fourteen years experience of the recognised world leading supplier of ultrasonic airspeed sensors.

The elimination of moving parts, together with a rugged stainless steel construction, means that the probe is virtually maintenance free and requires no calibration.

The heated head keeps the unit free from ice and snow, providing continuous use even in the most extreme weather conditions. The probe is rigorously tested to internationally recognised aerospace standards.

The low airspeed probe output is blended with the output from SCADU to optimise the forward airspeed accuracy.

- AFCS and weapons aiming systems applications
- Precision airspeed measurement
- Aircraft attitude compensation
- No calibration required
- Anti-ice design
- 2D probe immune to rotor down wash
- 3D probe provides down wash component
- Enhance low airspeed performance for SCADU



Quality Approvals

CWCIS are committed to complete customer satisfaction in all products and services.
International quality approvals include BS EN ISO9001:2000 and Civil Aviation Authority

www.cwcontrols.com

ULTRASONIC LOW AIRSPEED & SIDE SLIP PROBE

ULTRASONIC

LOW AIRSPEED & SIDE SLIP PROBE

TYPICAL OUTLINE SPECIFICATION

For further information please contact the sales department as listed below

SPECIFICATION

Measurement	
Output	10Hz
Parameters	Forward airspeed + side slip + down draft (3D) Absolute airspeed + direction vectors (2D or 3D)
Units	knots
Airspeed, Side Slip and Down Wash	
Range	0 - 450 knots operation. 120 knots practical limit due to accuracy of SCADU
Accuracy	2% of reading
Resolution	0.02 knots
Offset	±0.02 knots
Direction	
Range	0 - 359° horizontal ± 90° vertical (3D only)
Accuracy	± 2°
Resolution	1°
Power Requirement	
Probe only	28 Vdc, 1 watt
Heater	28 Vdc, 75 watts
Digital Output from SCADU	
Format	ARINC 429
Analogue Output from SCADU	
Parameter	Forward airspeed, side slip, down draft (3D) Absolute airspeed, direction vectors (2D or 3D)
Dimensions	
Size	215mm x 215mm x 170mm
Weight	1.0kg
Materials	
External Construction	Stainless Steel 316
Environmental	
Operating temperature	-55°C to +70°C
Humidity	5% to 100% RH
Icing	MIL-STD-810E Method 521.1 Proc. 1

Curtiss-Wright Controls Integrated Sensing

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Innovation In Motion

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