

# Aerospace and Military Sensor Applications

for System and Test Use

## Sensor Types

Pressure

Temperature

Position

Tilt

Vibration

Force

Humidity

Custom Solutions  
Aerospace Applications Expertise  
NASA and ESA Certified  
Proprietary Technologies  
Quality Design  
Reliable Sourcing

**measurement**  
SPECIALTIES



# Aerospace and Military Sensor Applications

## Commercial Aircraft



**LVDT** - Inlet guide vane • Spoiler actuator • Tail rudder actuator position • Autopilot elevator control  
**Bonded Foil Strain Gage (BFSG) Pressure Transducer** - Aircraft hydraulic braking monitoring • Cabin air pressure monitoring  
• Cockpit pressure monitoring • Flight test altimeter • Hydraulic pressure engine torquemeter • Flight test engine monitoring  
• Engine monitoring  
**US300 Pressure Transducer** - General aviation fuel pressure  
**NTC Thermistor** - Environmental controls • Cockpit display and electronic systems  
**Accelerometer** - Wing flutter and nacelle vibrations testing • Landing gear testing

## Military Aircraft



**LVDT** - Cockpit throttle position • Flap actuator • Pilots breathing system • In-flight refueling • Air brake spool valve • Weapons rack  
**Mini Load Cells** - Linkage forces • Cable loads • Actuator • Weapons • Servo forces  
**Mini Silicon Diffused Diaphragm Pressure Transducer** - Wind tunnel • Flight probes  
**BFSG Pressure Transducer** - In-flight refueling pods  
**Accelerometer** - Flutter and flight dynamics • Seat ejection  
**NTC Thermistors** - Environmental controls • Cockpit display and electronic systems

## Weapons Systems



**LVDT** - Cryogenic pump for infra red detectors • Submarine hatch actuator • Submarine secondary propulsion system  
**RVDT** - All terrain fighting vehicle controls • Unmanned Aerospace Vehicle (UAV) or drone flight controls  
**RVDT/LVDT** - Targeting system - Lens focusing  
**LVDT/Accelerometer** - Missile firing/ guidance • Safe & arm  
**BFSG Pressure Transducer** - Torpedo launch tube monitoring  
**NTC Thermistors** - Guidance systems

## Satellites



**LVDT** - Satellite telescope mirror position  
**NTC Thermistor** - Temperature for solar array panels • Power supply management • Satellite - motor monitoring  
**Accelerometer** - Payload/satellite vibration from launch time to orbit

## Helicopters



**BFSG Pressure Transducer** - Engine torque monitoring • Flight test engine differential pressure  
• Gearbox monitoring  
**Low Profile Strain Gage & Diffused Diaphragm Pressure Transducer** - Rotor blade profiling/studies  
**Accelerometer** - Flight vibration testing • Gearbox monitoring  
**NTC Thermistors** - Bearing temperature monitoring • Guidance systems • Cockpit display and electronic systems • Rotor gearbox temperature monitoring

## Quality Policy

Measurement Specialties is committed to meeting the needs and expectations of our customers regarding Quality, Cost and Delivery, and to satisfy the business objectives of our organization.

This commitment is reflected through the pursuit of:

- Establishment of trust and respect between ourselves and our customers
- Teamwork
- On-going education and training
- Continuous improvement
- Loyalty to our employees

We understand that good quality is a contribution to cost reduction, and that the quality of products we sell must conform to our customers' requirements and expectations.



### CERTIFICATE OF APPROVAL

This is to certify that the Quality Management System of

Measurement Specialties, Inc.  
Sensors Division

1000 Lucas Way  
Hampton, Virginia 23666, USA

having been audited in accordance with the requirements of Air 3309 Rev B  
has been approved by Lloyd's Register Quality Assurance  
to the following Quality Management System Standards

ISO 9001:2000, ANS/ISO/ASQ Q9001-2001  
AS 9100 Rev B

The Quality Management System is applicable to:  
Design, Manufacture, In-House Servicing and Distribution of  
Sensors, Actuators, and Accessories.

Approved Certificate No. JQA 001770  
Original ISO Approval: July 8, 1998  
Original AS Approval: January 4, 2001  
Current Certifications: January 4, 2006  
January 4, 2006  
January 4, 2006

Measurement Specialties measures its progress towards meeting our business objectives and total customer satisfaction by utilizing the following metrics:

- Quality Performance
- On-Time Delivery
- Product & Process Performance
- Customer Complaints and Resolutions
- Customer Satisfaction Surveys
- Internal Audit Results
- Cost of Poor Quality

### Certifications

ISO9001, ISO14001, TS16949, AS9100

## About Measurement Specialties

Measurement Specialties (MEAS) designs and manufactures sensors and sensor-based systems to measure pressure, force, position, tilt, vibration, humidity and temperature. MEAS uses multiple technologies - including piezoresistive, electro-optic, electro-magnetic, capacitive, application specific integrated circuits (ASICs), microelectromechanical systems (MEMS), piezoelectric polymers and strain gauges - to engineer sensors that operate precisely and cost effectively in mild to very harsh environmental conditions.

Measurement Specialties, Inc. is traded on NASDAQ under symbol MEAS

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