

AEROSPACE TEST & MEASUREMENT SENSORS

Application Note

The Aerospace industry demands reliable and precise pressure, load, and torque sensors for a variety of critical applications.

When you are designing, testing, and building the latest products for the aerospace industry, you need sensors that can stand up to the job... able to perform under harsh and demanding conditions or in extremely tight spaces, rugged enough to withstand multiple testing runs, and provide precise, accurate results over time, every time.

See why more people turn to Honeywell for aerospace test and measurement sensors:

- More than 50 years of experience serving the aerospace industry
- Comprehensive portfolio of test and measurement sensor products
- High accuracy, reliability, and robustness
- Calibration, repair, and warranty service offered on all Honeywell test and measurement sensors
- Extensive custom engineering capabilities
 - In-house design capabilities
 - Global engineering and manufacturing expertise
- Custom designs available for:
 - Extreme operating conditions
 - Demanding specifications
 - Specific physical configuration requirements

**10 in-H₂O to
160,000 psi**

Pressure range possibilities
available

50 g to 2,000,000 lb

Load cell capacity ranges
available

Up to 205°C [400°F]

High temperature
compensation range available
on sensors

0.05 % FS Accuracy

High accuracy available on
select sensor models

**1 Billion Cycles
Fatigue Life**

Select load cell models have
zero to full scale fatigue
ratings

Honeywell

CAPABILITIES

Load Cells



Products

- Low profile
- Miniature/subminiature
- Canister style
- Donut style
- In-line
- Load pins



Applications

- In-flight refueling*
- In-flight test of airframes and structural supports
- Pilot input forces (aileron, elevator, and rudder pedals)*
- Hook load sensor for helicopters*
- Ground-based airframe testing
- Throttle control sensors*
- Landing gear systems
- Braking systems

* on-board position

Pressure Transducers



Products

- General purpose
- Miniature
- Flush-mounted diaphragm
- High performance



Applications

- Aircraft environmental control system*
- Various hydraulic systems on flight test aircraft*
- Ground testing of aerospace support systems
- Component test validation and quality assurance
- Surface aerodynamic testing
- Tire pressure testing

Torque Transducers



Products

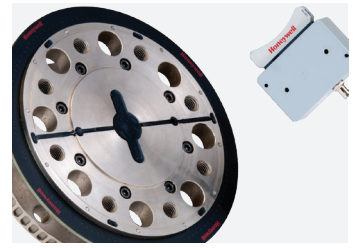
- Reaction
- Slip-ring rotary
- Non-contact rotary transformer



Applications

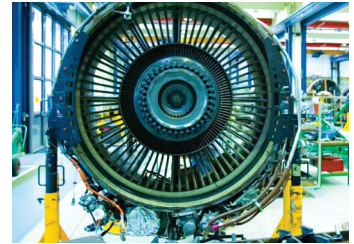
- Aircraft hydraulic pump testing for R&D
- Flap actuator testing
- Satellite panel actuator testing system*
- Aircraft propeller testing*
- Aircraft engine testing

Wireless Telemetry



Products

- WDC analog telemetry
- TMS digital telemetry torque system



Applications

- Main rotor/tail rotor drive torque measurement
- Fuel pump testing
- Dynamic strain measurement on turbine blades for jet engines

FOR MORE INFORMATION

Honeywell Sensing and Internet of Things services its customers through a worldwide network of sales offices and distributors. For application assistance, current specifications, pricing, or the nearest Authorized Distributor, visit sensing.honeywell.com or call:

USA/Canada	+302 327 8920
Latin America	+1 305 805 8188
Europe	+1 302 327 8920
Japan	+81 (0) 3-6730-7152
Singapore	+65 6355 2828
Greater China	+86 4006396841

Honeywell

Sensing and Internet of Things

830 East Arapaho Road
Richardson, TX 75081

008849-5-EN | 5 | 04/20
© 2020 Honeywell International Inc.

Honeywell