

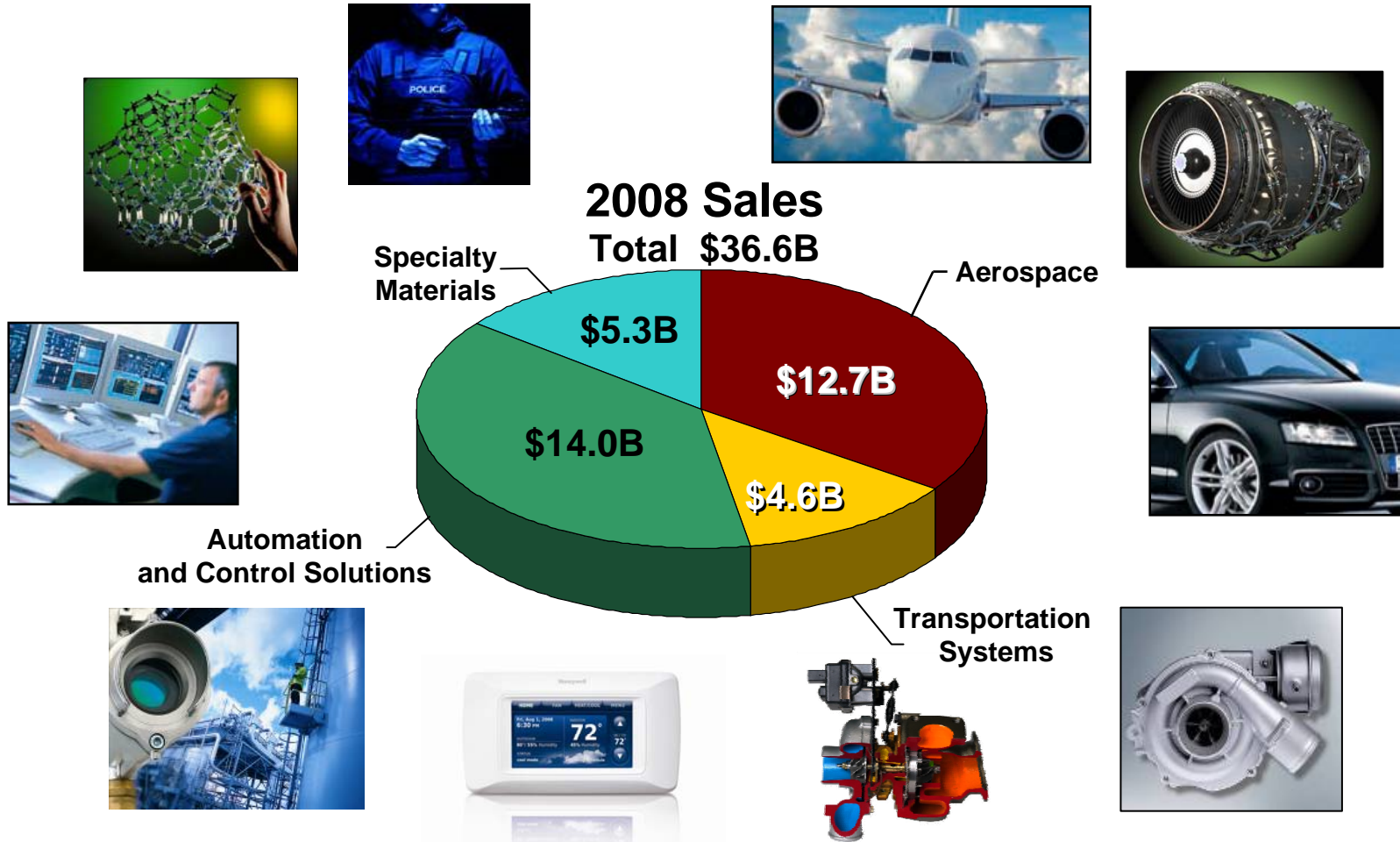


Sensing & Control Aerospace & Defense Capabilities

PART INNOVATION. PART ENGINEERING. TOTAL SOLUTIONS.

Honeywell

Honeywell's Businesses



Diverse Businesses, Technologies and Products

Automation and Control Solutions

Profile

Strengths

Growth Focus

- Sales: \$14B
- 50,000+ Employees
- Technology, Leading Brands
- Large Installed Base
- Large, Growing Industries
- Global Expansion

ECC

Security

Life Safety

Sensing and Control

Building Solutions

Process Solutions



Thermostats



Building Automation



Water Control

Gas Valves



Motion / Human Presence Sensors



CCTV/ DVR

Control Systems



Fire/Smoke Sensors



System Panels



Gas Detection



Home Medical Care



Test & Measurement



Electronic Sensors



Electromechanical Controls

Buildings



Instant Alert



Process Controls



Distributed Control

Sensing and Control Business Profile

Profile

2008: ~5,000 Employees

Strengths

- High Quality / Delivery Legacy
- Global Reach
- Broad Product Portfolio & Technology Capability
- Excellent Brand Name and Technology Reputation
- Broad System-critical Know-how

Electronic Sensing

Pressure, Thermal, Speed & Direction, Position, Emerging Technologies



Serving major OEMs in Aerospace, Sport Vehicles, Military, Rail, Heavy-Duty Vehicle, Medical, and Consumer Electronics

Test & Measurement

Pressure Sensors, Load Cells, Torque Cells, Accelerometers, Displacement, Instrumentation, Repair/Calibration Services



Serving Aerospace, Oil/Gas, Transportation, Industrial, Medical and General R&D

Electro-Mechanical

Commercial and Industrial Grade Switches, Pressure Switches, Vehicle Controls, Aerospace Controls



Serving major OEMs in Aerospace, Transportation, Industrial and Appliance

Key Segments We Serve

Aerospace & Defense



- Flap and throttle selectors for airplane cockpit control
- Speed sensors for engine, motor & wheel
- Rotary & angle sensing for weapon & communication systems
- Linear position sensor for ram door position
- Thermal sensors for environmental control systems

Industrial



- Safety switches for material handling
- Value-added assemblies and design
- Explosion-proof switches for harsh environments
- Basic switches for appliances
- Position sensors and potentiometers

Medical



- Airflow sensors for respiratory devices
- Pressure sensors for infusion, dialysis or diagnostic devices
- Industrial switches for medical equipment

Transportation



- Steering and handlebar controls
- Speed and position sensors
- Temperature, pressure and gas sensors
- Hour meters

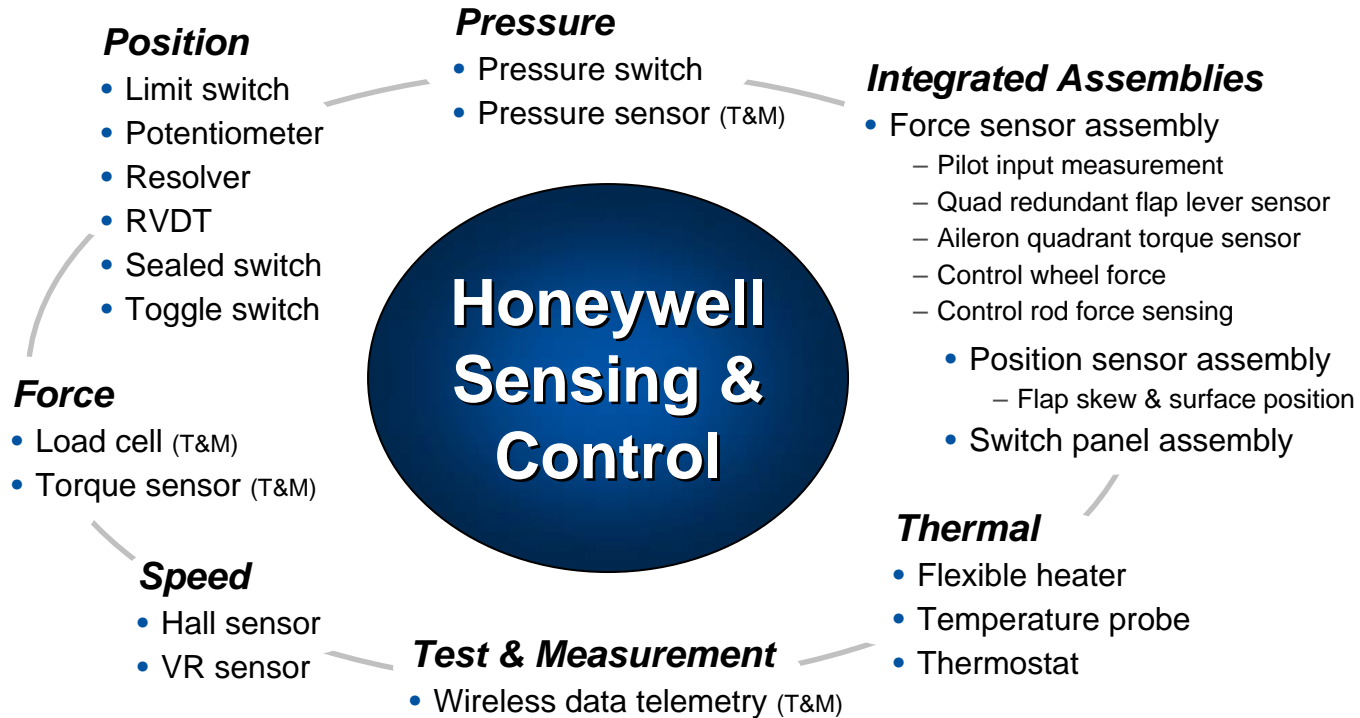
Test & Measurement



- Torque sensors for automotive testing
- Load sensors for custom engineering testing
- Configurable sensors for aerospace testing
- Sensors for oil and gas exploration

Leading positions in strong industries

Aerospace & Defense Products



- Broad portfolio of highly precise, reliable sensors and assemblies
- Deep technical expertise in sensors & assemblies
- 50+ years experience designing & delivering aerospace products

Industry Leader – Broad Portfolio of Sensor & Switch Solutions

Aircraft Capabilities



Military Ground Vehicle Capabilities

Operator Controls

- Hour meter
- Indicator panel
- Infrared sensor
- Key switch
- Keyless access sensor
- Push-pull switch
- Shifter
- Temperature sensor
- Toggle switch
- Turn signal control

Engine Systems

- Flexible heater
- Pressure sensor
- Speed – Hall sensor
- Speed – VR sensor
- Temperature probe
- Thermostat

Fuel System

- Pressure sensor
- Temperature sensor



Weapon Systems

- Limit switch
- Position sensor assemblies
- Potentiometer
- Pressure sensor (T&M)
- Resolver
- Sealed switch
- Thermostat

Doors

- Limit switch
- Position sensor assemblies
- Sealed switch

Vehicle Position / Tilt

- Inertial measurement unit
- Limit switch
- Hall-effect position sensor
- SMART position sensor

Vehicle & Engine Testing

- Force sensor (T&M)
- Pressure sensor (T&M)
- Torque sensor (T&M)
- Wireless data telemetry (T&M)

Brake System

- Pressure sensor

Hydraulic Systems

- Pressure sensor
- Pressure switch
- Temperature probe

Wheels & Suspension

- Inertial measurement unit
- Speed sensor

Spacecraft Capabilities



Antenna, Solar Array Position

- Potentiometer
- Resolver

Temperature Monitoring

- Temperature probe
- Thermostat

Test & Measurement

- Force sensor (T&M)
- Pressure sensor (T&M)
- Torque sensor (T&M)
- Wireless data telemetry (T&M)

Trusted Partner for Commercial & Military Spacecraft

Aerospace & Defense Capabilities

Engineering

- Highly experienced aerospace engineers
- Core skills include mechanism, sensor, analog/digital electronics, environmental packaging
- Independent product evaluation lab
- Extensive computer simulation support
- Reliability analysis support

Program Management

- Network of PM's in Global Design Centers
- Standard product & technology development processes
- Rigorous portfolio & resource management

Integrated Supply Chain

- 7 S&C factories building aerospace products
- All plants AS certified
- Support long term component supply; minimizes obsolescence / vendor withdrawal
- Strong transition processes support productivity-driven initiatives

Quality

- Dedicated design quality engineers
- Fundamental element of product design
- Meet certification standards: ISO 9000, AS 9100, TS16949, ISO 14000, FAA & JAA Certified Repair

Strong supporting infrastructure with many years of Aerospace delivery experience

New Technologies in Development

Developing viable technologies with real benefit for aerospace customers



Pilot Controls

- Unique design that promises simplified wiring, lower weight & lower assembly cost than other active sidestick solutions



Smart Position Sensing

- Precise, non-contact position sensor → increase life
- Potential for significant weight savings over other LVDTs
- Potential for increased flexibility, ease of integration vs. LVDTs



Photonic Sensing

- Fiber-optic based sensors & switches
- Potential for significant weight savings compared to traditional copper wire based solutions

Future capabilities in active development

Global Operations



Global Operations and Design Footprint

Legacy Capabilities

Honeywell's rich aerospace & industrial heritage encompasses a broad range of legacy technology capabilities

- Accelerometers
- Cockpit Indicators & Annunciators
- Displacement & Vibration Product Test for airframes, engines & controls
- Flux Valve Compass Navigation
- Proximity Sensors
- Pressure Transmitter
- Y-Guides



Back-up info

Honeywell

Company Overview

- 128,000 employees in more than 100 countries
- A *Fortune* 100 company – sales of \$36.6 billion in 2008
- “World’s Most Ethical Companies”
 - Ethisphere Institute
- “America’s Most Admired Companies”
 - *Fortune* magazine
- “Best Places to Launch a Career”
 - *BusinessWeek* magazine
- “The Alexander Hamilton Award”
 - *Treasury and Risk* magazine
- “Most Admired Companies”
 - *U.S. Black Engineer & Information Technology*, *Hispanic Engineer & Information Technology*, and *Women of Color* magazines

Sensing and Control Organization

Beth Wozniak
President, Sensing and Control

Business Leaders

Electronic Sensing Allen Han	Electromechanical Brad Kautzer	Test and Measurement Anup Jain	Asia Pacific Michael Lee
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Global Support Leaders

Marketing & Business Devt. Phil Geraffo	Sales Bradd Schneider	Technology Larry Goldstein
ISC Frank Nonnenmann	Finance Travis Chester	Human Resources Curtis Dobler
Legal Tony Kuznik	Quality & IT Dean Anderson	Communications Mark Hamel