SOLUTIONS FOR HEALTHIER AIR & HVAC SYSTEMS



Honeywell Sensors are Essential for Monitoring Air Quality and Improving HVAC Systems

Honeywell Solutions are broad – they provide accurate feedback on key environmental conditions that contribute to home and commercial building comfort, for example particulate matter, temperature, humidity and gases including CO_2. They not only improve comfort in a home or commercial building, but can also increase energy efficiency. In this home, several key HVAC/home devices are featured along with the Honeywell sensors that allow them to run reliably and deliver accurate readings.

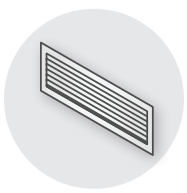
HOME COMFORT



Air Cleaner/Purifier
- Particle sensors
- CO_2 sensors
- Temperature/humidity sensors



Indoor Air Quality Monitors & Systems
- Particle sensors
- CO_2 and CO sensors
- Temperature/humidity sensors



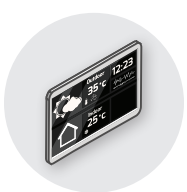
Air Filter
- Particle sensors
- Airflow sensors
- Board-mount pressure sensors



Gas Detectors
- CO_2, CO, SO_2, CO, NO and O_3 sensors

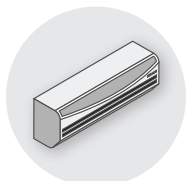


Thermostats & Humidistats
- CO_2 sensors
- Temperature/humidity sensors

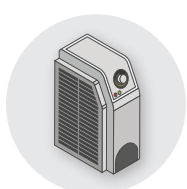


Room Control & Connected Homes
- Particle sensors
- CO_2 sensors
- Temperature/humidity sensors

HVAC: HEATING AND VENTILATION



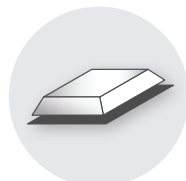
Air Conditioning Systems
- Particle sensors
- CO_2 sensors
- Board-mount pressure sensors
- Temperature/humidity sensors



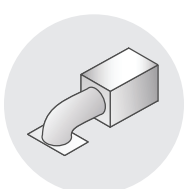
Air Purifiers
- Particle sensors
- CO_2 sensors
- Temperature/humidity sensors



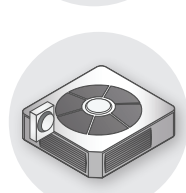
Boiler
- CO gas sensor
- Heavy-duty and board-mount pressure sensors
- Temperature/humidity sensors
- MICRO SWITCH basic switches



Demand Control Ventilation
- Particle sensors
- CO_2 sensors
- Temperature/humidity sensors



VAV Control
- Board-mount pressure sensors
- Temperature/humidity sensors
- Airflow sensors



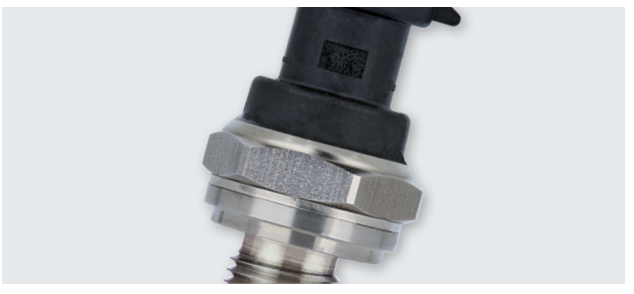
Refrigeration
- Heavy-duty pressure sensors and switches
- Temperature/humidity sensors
- MICRO SWITCH basic switches
- Hall-effect magnetic sensor ICs

Honeywell

ENERGY EFFICIENCY, COMFORT, LOWER COSTS AND MORE ALL PACKAGED INTO TINY SENSORS & SWITCHES

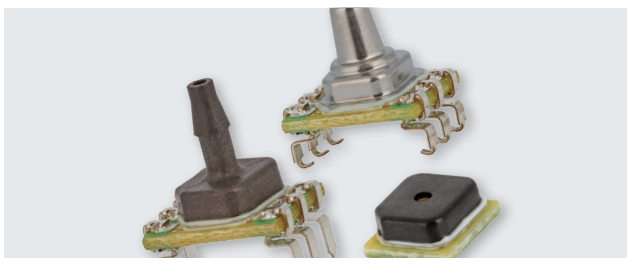
THE INCREASING COMPLEXITY OF ENVIRONMENTAL CONTROL SYSTEMS AND DEVICES MEANS AN INCREASING NUMBER OF HIGHLY RESPONSIVE SENSORS REQUIRED.

As consumer and commercial expectations shift toward better energy efficiency, automation, lower costs and sustainability, suppliers need to be on the forefront with the latest technologies to stay competitive. Honeywell's broad sensor and switch portfolio has the product solutions needed to support our customers' next generation developments. Honeywell's broad line of sensors covers all HVAC control applications and mounting options, making Honeywell your best sensor source. From humidity/temperature sensors for heating and cooling to CO_2 sensors for air quality and control – and just about everywhere in-between – you can count on Honeywell sensors for the latest technology, affordability, ease of installation, accurate performance and reliability.



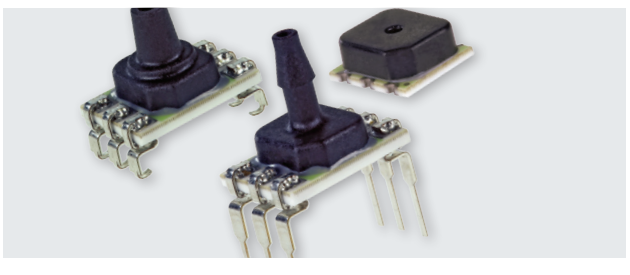
HEAVY DUTY PRESSURE SENSORS, MIP SERIES

- Rugged, stainless steel construction
- Ratiometric output: 0.5 Vdc to 4.5 Vdc
- Total Error Band: ±0.75 %FSS to ±1.0 %FSS (-40°C to 125°C) for voltage output
- Beneficial in applications where the sensor functionality and the need to know internal or external failure modes is critical



BOARD MOUNT PRESSURE SENSORS, BASIC ABP2 SERIES

- Total Error Band: As low as ±1.5 %FSS
- Liquid media option
- Small size saves room on the PCB, simplifying design
- Digital output allows the sensor to be directly plugged into the customer's circuitry without requiring major design changes



BOARD MOUNT PRESSURE SENSORS, BASIC ABP SERIES

- High accuracy, great value pressure measurement solution
- Pressure range: ±60 mbar to 10 bar, ±6 KPa to 1 MPa, ±1 psi to 150 psi
- Accuracy: ±1.5 %FSS (temp compensated: 0°C to 50°C [32°F to 122°F])



BOARD MOUNT PRESSURE SENSORS, TRUSTABILITY™ SERIES

- High accuracy, performance, reliability and long-term stability
- Pressure range: ±1.6 mbar to ±10 bar, ±160 Pa to ±1 MPa, ±0.5 in-H_2O to ±150 psi
- Accuracy: ±2 %FSS (temp compensated: -20°C to 85°C [-4°F to 185°F])



CITY TECHNOLOGY CO SENSOR, ECOSURE X

- Designed for unattended operation and long life: > 10 years in normal use
- Stable performance and self diagnostic function
- UL Certified - UL2075
- Often used in: residential, fire detection and ventilation control applications



CITY TECHNOLOGY CO_2 SENSOR, CRIR SERIES

- Single channel, non-dispersive infrared technology with Automatic Baseline Correction
- UART digital interface
- Enhanced long-term stability
- Easily integrated into system designs; maintenance free for normal indoor applications



CITY TECHNOLOGY O_2, CO, NO, NO_2, SO, SO_2, H_2S SENSORS, 5 SERIES

- Incorporates scavenging electrode for removal of by-products
- Electrical connection via PCB pins or solder tags
- Wide measurement range and high maximum overload



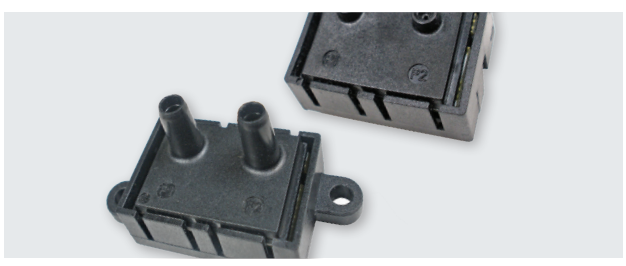
CITY TECHNOLOGY SO_2, CO, NO, NO_2, O_3 SENSOR, AQ3 & AQ7 SERIES

- High resolution with a low detection limit
- Custom-built low noise board achieves high accuracy under ppb level (AQ3)
- Individual compensation for temperature and cross sensitivity
- High correlation with control station



PARTICULATE MATTER SENSOR, HPM SERIES

- Laser-based sensor which detects and counts particles using light scattering
- Standard and compact sizes; Concentration range: 0 $\mu g/m^3$ to 1,000 $\mu g/m^3$
- Fully calibrated; EMC: Heavy industrial level IEC 61000



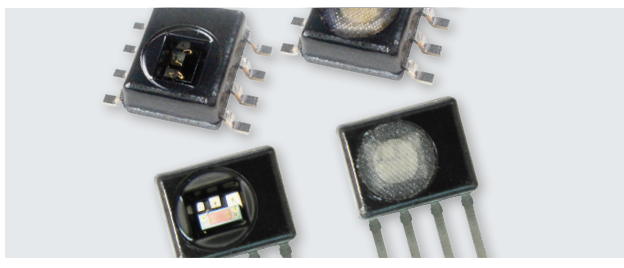
HONEYWELL ZEPHYR™ HIGH ACCURACY AIRFLOW SENSORS, HAF SERIES

- Fast response time and high stability; High sensitivity at very low flows
- High 12-bit resolution increases the ability to sense small airflow changes
- Wide airflow range with custom flow ranges



MICRO SWITCH BASIC SWITCHES, V19, Z & BZ SERIES

- V19: RoHS/REACH/Cal Prop65 compliant; > 1M mechanical operations
- Z: Small, lightweight, low cost, enhanced life, ample electrical capability
- BZ: Low operating force and differential travel; Current rating ranges from 15 A to 25 A



DIGITAL HUMIDITY/TEMPERATURE SENSORS, HONEYWELL HUMIDICON™ HIH6000, HIH6100, HIH7000, HIH8000

- Digital output-type relative humidity sensor; Energy efficient; ultra-small package
- Industry-leading long-term stability, reliability and relative humidity accuracy
- Lowest total cost solution; true, temperature-compensated digital I²C or SPI output

FOR MORE INFORMATION

Honeywell Advanced Sensing Technologies services its customers through a worldwide network of sales offices and distributors. For application assistance, current specifications, pricing or the nearest Authorized Distributor, visit our website or call:

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