Work Smarter with Honeywell Switches and Sensors

Due to the high cost of energy, HVAC systems need to be efficient, accurate, and reliable. Honeywell’s broad line of sensors and switches covers HVAC control, monitoring, temperature, and more while maintaining energy efficiency and accuracy. Honeywell provides industry-leading products with the latest technology that are easy to install and maintain while providing precise, dependable performance.

### Board Mount Pressure Sensors
- **TruStability™ RSC, HSC and SSC Series; Basic ABP Series**
- Measures differential pressure

### Pressure Switches
- **HP, HE, ME, LP, LE Series**
- Monitors pressure to prevent a potentially explosive situation

### Humidity Sensors
- **Honeywell HumidIcon™: HIH6000, HIH6100, HIH7000, HIH8000 Series**
- Maintains occupant comfort for desired humidity and temperature levels

### Heavy Duty Pressure Transducers
- **PX2 Series, PX3 Series, MLH Series, MIP Series**
- Monitors system performance for proper environmental control

### Micro Switch Large Premium Basic Switches
- **BZ, WA Series; DT Series**
- Provides high-performance mechanical switching

### Micro Switch V-Basic Switches
- **V7 Series, V15 Series**
- Provides high-performance mechanical switching

### Micro Switch Explosion-Proof Switches
- **V15W2 Series**
- Enables efficient control of the electric motors that drive fans, blowers and pumps

### Micro Switch Miniature and Subminiature Switches
- **SM Series; SX Series; ZM, ZW, ZX Series**
- Measures and monitors airflow

### Hall-effect/MR Sensor ICs
- Provides energy management, amperage draw status, and kilowatt consumption

### Current Sensors
- **CSN02S Series**
- Controls power and other functions near flammable hydrocarbon refrigerants

### Micro Switch Toggle Switch
- **NT Series**
- Provides temperature control or over-temperature protection

### Commercial Thermostats
- **2450 Series, 2455 Series**
- Provides energy management, amperage draw status, and kilowatt consumption

### Refrigerant Monitoring and Control
- **G3 Series, G5 Series, G7 Series, G9 Series**
- Provides temperature control or over-temperature protection

---

**Air Filter, Cooling Coil, and Fan/Blower**
- Measures differential pressure

**Boiler**
- Monitors pressure to prevent a potentially explosive situation

**Duct Work, VAV, and Remote Transmitter**
- Maintains occupant comfort for desired humidity and temperature levels

**Chiller**
- Monitors system performance for proper environmental control

**Cooling Tower**
- Monitors temperature

**Pump**
- Provides energy management, amperage draw status, and kilowatt consumption
Pressure Sensors and Transducers

Board Mount Pressure Sensors, Basic ABP Series
- Cost effective, energy efficient, calibrated, and temperature compensated
- As small as 8 x 7 mm
- Industry-leading long-term stability of ±0.25 %
- Industry-standard 4 to 20 mA output
- Total Error Band of ±1.5 %FS
- Pressure range of 60 mbar to 1 bar (±1.5 %FS)
- Wide variety of pressure ranges and package styles available

Board Mount Pressure Sensors, TruStability® RSC, HSC and SSC Series
- Industry-leading long-term stability
- Extremely tight accuracy of ±0.25 %FS (SSC), ±1 %FS (HSC), or ±2 %FS (RSC)
- Pressure range of ±25 mbar to ±10 bar, ±1 %FS to ±1 bar, ±2 %FS ±1.5 %FS
- Low operating voltage and extremely low power consumption
- Wide variety of pressure ports and package styles available

Heavy Duty Pressure Transducers, PK3 and PK2 Series
- Rugged stainless steel 316L construction
- Suitable for use in highly corrosive environments
- Pressure range: 1 to 50 bar (0.01 to 710 psi)
- Low voltage output: 20 mA output options
- Rated IP65 or better for protection against harsh environments

Heavy Duty Pressure Transducers, MP Series
- Rugged stainless steel 316L construction
- Compatible with a wide range of fluids and gases
- Reliability/performance over temperature range
- Outstanding EMC/EMC performance
- RoHS, REACH and CE compliant

Heavy Duty Pressure Transducers, MLH Series
- Compatible with ammonia, common HFC refrigerants, and many low GWP refrigerant generation refrigerants such as R32 and R22/32; E.134A
- Pressure range of ±50 psi to ±800 psi (inclusive)
- Voltage and current output: 4 mA to 20 mA output options
- Rated IP65 or better for protection against harsh environmens

Hall-Effect/Magnetoresistive Sensor ICs
Bipolar Hall-Effect Position Sensor ICs, S530AT/S540A
- Sensitive bipolar magnetics respond to airfield North and South poles
- Miniature (S530A) and subminiature (S540A) sizes fit small spaces
- Durable design with in-package magnetic protection
- Thermally balanced integrated circuit for stable operation over full temperature range of -40 °C to +125 °C (+0 °C to +257 °F)

Latching Hall-Effect Digital Sensor ICs, S5361RT/S5461R
- Miniature construction in plastic package
- Low power consumption (5 mA at 4.5 Vdc) for energy efficiency
- Bipolar magnetic for ring magnet applications
- High speed operation range of 1 to 200 kHz
- Low voltage operation to 5 Vdc
- Robust design operates up to 150 °C (302 °F)

Linear Hall-Effect Sensor ICs, S5490 Series
- Small size with low power consumption
- Single current sinking or current sourcing output
- Built-in linearized thin-film resistors allow sensitivity and temperature compensation
- Rail-to-rail operation provides more usable signal for higher accuracy
- Responds to both positive and negative gauss
- Quad Hall sensing element for stable output

Magnetoresistive Sensor ICs, Nanopower Series (SM351LT/SM353LT)
- Standard packaging
- Power consumption (SM351LT/SM353LT): 4 mA typ., 10 mA max.
- Power consumption (SM463R): 10 mA typ., 30 mA max.
- Supply voltage of 3.4 to 15 Vdc
- Non-chopper stabilized design

Magnetoresistive High-Res Magnetic Displacement Sensor ICs, APS00B
- Cost-effective, space efficient for high volume OEM designs
- Wide, angular range allows measurements of ±90° without additional components
- Measures only field direction; virtually unaffected by shock, vibration, magnetic source gate variations
- Low power consumption (5 V x 4 mA Vdc) promotes energy efficiency
- Tape and nested packaging

Humidity/Temperature Sensors
Digital Humidity/Temperature Sensors, Honeywell HumidIcon™
H61000, H61010, H61020, H61030
- High-speed digital temperature and humidity sensor
- Industry-leading long-term stability (1.2 % RH over five years)
- Industry-leading reliability (MTTF 1.3 x 10^9 hours)
- Industry-leading hysteresis accuracy
- Lowest total cost solution; true, temperature-compensated digital, PC or SP output
- Energy efficient, ultra-small package

Immersion Package Temperature Sensors, R300 Series
- One-piece passive, relative temperature device (RTD) high temperature probe
- Excellent reliability, response time, and accuracy
- Working temperature range of -40 °C to 275 °C (+40 °F to 527 °F)
- Durable stainless steel closed tip design

Surface Package Temperature Sensors, 500 Series
- Broad temperature accuracy, and surface temperature probes
- Small, easy-to-install assemblies
- Enhanced reliability, precision, stability, and stability for greater flexibility
- Operating temperature range of 60 °C to +100 °C (+140 °F to 212 °F)
- Wide variety of housing styles and materials; custom options available

Air, Surface Package Temperature Sensors, 6655 Series
- Extremely tight accuracy of ±0.25 %FS (SSC), ±1 %FS (HSC), or ±2 %FS (RSC)
- For use in surface/pipe temperature applications in non-condensing environments
- Operating temperature range of -20 °C to 110 °C (+40 °F to 230 °F)
- Extended life and stable output; enhanced accuracy and response time
- Small size; variety of packages; RT curved, termination style, and housing materials

Commercial Thermostats, 2450 Series, 2455 Series
- Affordable, robust, customizable
- Small size with no programming required
- Operating temperature ranges of 0 °C to 260 °C (32 °F to 500 °F)

Current Sensors
Closed Loop Current Sensors, CSN2X5 Series
- Current sensing up to ±275 A (reducing on product listing)
- Measures ac, dc, and impulse currents
- Competitive cost/performance ratio
- Rapid response and high overload capability
- Industrial operating temperature range, small size, and weight

Airflow Sensors
Honeywell Zephyr™ High Accuracy Airflow Sensors, HAF Series
- Small size with low power consumption
- Small size and low power consumption sensing linear output
- Built-in thin-film resistors, laser trimmed for precise sensitivity & temperature comp
- Rail-to-rail operation provides more usable signal for higher accuracy
- Responds to either positive or negative flow
- Quad Hall sensing element for stable output

Signal Conditioning Airflow Sensors, AWML000 Series
- Accurate and reliable signal
- Cost-effective, micro-bridge technology
- Bi-directional sensing capability
- Low differential pressure sensing

MICRO SWITCH Basic Switches
MICRO SWITCH Large Basic Switches, B2 and WA Series, DT Series
- Accepted worldwide standard “Large Basic” switch
- Longer operating force and different deflection travel
- Long mechanical life up to 200,000,000 cycles at 95 % survival
- Elongated mounting hole for easy, accurate mounting
- Current rating ranges from 15 A to 25 A
- Chronically actuated, termination and operating characteristics
- Two independent single-pole double throw circuits in one housing with an actuator and DT

MICRO SWITCH V-Basic Switches, VT Series
- Best suited for higher cost-of-failure applications
- Designed for 100K operations at 26A or 10M for mechanical life
- World-wide package size acceptance
- Current rating ranges from 0.3 A to 25 A
- UL/CSA and ENEC approvals

MICRO SWITCH V-Basic Switches, VS Series
- Best suited for lower cost-of-failure applications
- Designed for 10K operations at 12A or 1M for mechanical life
- World-wide package size acceptance
- Current rating ranges of 0.1 A to 20 A
- UL/CSA, ULE, and ENEC approvals

MICRO SWITCH Explosion-Proof Basic Switches, VS152 Series
- Approved for use in Zone 2 hazardous locations
- IP67 equivalent
- UL, cUL, ENEC, EEx (IEC Ex) approvals
- 5 A electrical rating
- Longer service life: over one million mechanical operations

MICRO SWITCH Miniature/Subminiature Switches, S5/SX Series
- Best suited for high cost-of-failure applications
- Small, lightweight, extended life opening
- Elongated mounting hole for easy, accurate mounting
- Choice of actuation, electrical termination, and gold contact options for low energy switching and reliability
- UL/CSA, CE, ENEC approvals

MICRO SWITCH Miniature/Subminiature Switches, ZM/2Z Series
- Best suited for lower cost-of-failure applications
- Small, lightweight, low cost, enhanced life, high current capability
- Choice of low energy or power-duty electrical ratings (gold-plated or silver contacts)
- Choice of or rating, actuation, termination and operating characteristics
- UL/CSA, ULE, and ENEC approvals

MICRO SWITCH Toggle Switches, NT Series
- 10A 12-1201 certified, designed for use near flammable hydrogen carbon refrigerants
- Quick connect spade terminals
- UL1911 electrical rating
- Sealed with 3, 3R, 4, 13, and IP67
- Operating temperature: -40 °C to 71 °C (-40 °F to 160 °F)

Pressure Switches
Premium and Economy Pressure Switches, HPVE/ME/LPVE Series
- High, medium, and low pressure switches
- Life cycle ratings up to 2 million, IR pressure
- Set point factory set or field adjustable 0.24 bar to 30.102 bar (3.5 psi to 4500 psi)
- High burst pressure up to 1379 bar (20000 psi)
- Variety of pressure ports, electrical terminations, and compatibility with many media

Find out more
Find out more at sensing.honeywell.com, email info.sc@honeywell.com, or contact us directly by phone: Asia Pacific +656353-2828, Europe +44 2988-484841, and USA/Canada +1-800-537-6945

Honeywell Sensing and Internet of Things