SOLUTIONS FOR HVAC APPLICATIONS

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.

A
Board Mount Pressure Sensors: TruStability™ RSC, HSC and SSC Series; Basic ABP Series

B
Monitors pressure to prevent a potentially explosive situation
Pressure Switches: HP, HE, ME, LP, LE Series

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

D
Monitors system performance for proper environmental control
Heavy Duty Pressure Transducers: PX2 Series, PX3 Series, MLH Series, MIP Series

E
Monitors temperature
Packaged Temperature Sensors: R300 Series, 6655 Series, 500 Series, LTP Series

F
Provides high-performance mechanical switching
MICRO SWITCH V-Basic Miniature Switches: BZ, WA Series; DT Series
MICRO SWITCH V-Basic Large Premium Basic Switches: B2, WA Series

G
Enable efficient control of the electric motors that drive fans, blowers and pumps

H
Measures and monitors airflow
Airflow Sensors: HAF Series, AWM1000 Series

I
Provides energy management, amperage draw status, and kilowatt consumption
Current Sensors: CSNXXS Series

J
Controls power and other functions near flammable hydrocarbon refrigerants
MICRO SWITCH Toggle Switch: NT Series

K
Provides temperature control or over-temperature protection
Commercial Thermostats: 2450 Series, 2455 Series
Bipolar Hall-Effect Position Sensor ICs, SS30AT/SS40A
- Sensitive bipolar magnetic response to earth's North and South poles
- Minature (SS40A) and subminature (SS30AT) sizes fit small spaces
- Durable design for harsh environments
- Thermally balanced integrated circuit for stable operation over full temperature range of -40°C to +75°C (+250 to 275°F)

Latching Hall-Effect Digital Sensor ICs, SS31RT/SS41RT
- Small, versatile digital Hall-effect devices operated by magnetic field from a permanent magnet or an electromagnet
- Enhanced sensitivity often allowing use of less expensive magnets
- Miniature package size, built-in reverse voltage protection
- Low operating current of 4 mA to 20 mA output options
- Rated IP50 or better for protection against harsh environments

Linear Hall-Effect Sensor ICs, SS450R
- Small size with low power consumption
- Single current sinking or current sourcing linear output
- Built-in ultra-thin film resistors allow sensitivity and temperature compensation
- Rail-to-rail operation provides more usable signal for higher accuracy
- Responds to either positive or negative gauss
- Quad Hall sensing element for stable output

- Sensitivity of 7 G typ., 11 G max. (SM351RT/SM353RT)
- Supply voltage of 300 mV to 1.8 V (SM351LT/SM353LT, 3 V to 24 Vdc (SM351RT/SM353RT/SM354RT))
- Omnipolar sensing activates with either pole from a magnet
- Temperature range of -40°C to +85°C (+4°F to +185°F)
- Does not require external pull-up resistor (SM351LT/SM353LT/SM354RT)
- Non-chopper stabilized design (SM351LT/SM351LT)

Magnetoresistive High-Res Magnetic Displacement Sensor ICs, APS00B
- Cost-effective, high resolution for use in volume OEM designs
- Wide, angular range allows measurements of ±90° without additional components
- Measures only field direction, virtually unaffected by shock, vibration, magnetic-source gap variations
- Low power consumption (0.5 V at 4 mA Vdc) promotes energy efficiency
- Tape and reel packaging

Digital Humidity/Temperature Sensors, Honeywell Humicore™
- HIH6000, HIH6100, HIH7000, HIH8000
- Durable stainless steel closed tip design
- Excellent reliability, response time, and accuracy
- Operating temperature range of -40°C to +75°C (-40°F to +167°F)
- Durable stainless steel closed tip design

Surface Packaged Temperature Sensors, 500 Series
- Small, easy-to-install assemblies
- Enhanced reliability, precision, sensitivity, and stability for greater flexibility
- Operating temperature range of -60°C to +110°C (-76°F to +230°F)
- Wide variety of housing styles and materials; custom options available

Commerical Thermostats, 2450 Series, 2455 Series
- Small size with no programming required
- Operating temperature ranges of 0°C to 100°C (32°F to 212°F)
- Compact cost effective, space saving design
- Rapid response and high overload capability
- Industry operating temperature range, small size, and weight

HALL-EFFECT/MAGNETORESISTIVE SENSOR ICS

PACKAGED TEMPERATURE SENSORS AND THERMOSTATS

Digital Switch Basics

Honeywell Zephyr™ High Accuracy Airflow Sensors, HAF Series
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