

Trusted Measurement.

Smart and Stable Temperature Measurement

Honeywell's **STT 3000® smart temperature transmitters** offer reliability, stability and accuracy for monitoring, control and safety applications. The line is offered as a three-tiered solution, providing the right mix of price and performance to meet application needs. They are available in OEM packages and ready-to-install assemblies with globally accepted approvals, communications and diagnostics.



The **STT170** transmitter is a cost-effective lower tier solution with 4-20 mA output that is ideal for basic temperature monitoring and OEM applications.

- Universally programmable for both RTDs and thermocouples
- Ultra-compact size fits into the smallest DIN B head mount housing
- Field mount housing options with local engineering unit meter
- High or low limit alarms to activate in event of sensor failure

The **STT250** transmitter is a mid-tier solution that is ideal for control and safety temperature measurement applications. It is a more advanced solution with higher functionality and performance in a compact module with dual-input, advanced diagnostics and redundant sensor for critical and safety applications. It is available with SIL2 TUV safety certification.

- Universal sensor inputs—RTDs and thermocouples
- Available with integral engineering units meter
- HART 6 communication output option

The **STT350** transmitter is a high-performance solution most suited for custody transfer and critical control applications. It offers superior accuracy, stability and noise performance. It is available with DE or FOUNDATION Fieldbus communications, diagnostics, Delta T and redundant sensors capabilities.

- One model for most thermocouples or RTDs (2-, 3- or 4-wire)
- Auto calibration against internal reference every second
- No board change, potentiometer adjustment or calibration required

The **STT800** temperature transmitter and probe assemblies are installation-ready temperature measurement assemblies offered with any of the STT 3000 transmitters, sensor heads, sensors, thermo wells and process connections. They are available in short delivery cycles and come with custom calibration and agency approvals.

- STT820—Rigid probe assembly
- STT830—Threaded and socket weld thermo well assembly
- STT840—Drilled and flanged thermo well assembly

Honeywell STT 3000	Mounting Option				Functional Options			Communication Options		
	2"Pipe	Wall	Head	DIN Rail	Local Meter	Dual Input	Integrated Assembly	DE	HART	FF
STT170	•	•	•	•	•	•	•		•	•
STT250	•	•	•	•	•	•	•	•	•	
STT350	•	•		•	•	•	•	•		•

Accurate and Reliable Flow Measurements for the Most Demanding Applications.

Honeywell's VersaFlow™ line of flow meters is suitable for liquid, gas or steam service over a wide range of process conditions. Innovative technologies and a range of sizes provide the best solutions to meet industrial requirements for safety and efficiency.

Electromagnetic Flow: Honeywell's VersaFlow electromagnetic flow meter is suitable for flow measuring tasks and applications, including rapidly changing media, pH jumps, large amounts of solids or pulsating flow. Product versatility enables VersaFlow to deliver significant cost savings during planning, procurement, installation and training. New virtual reference grounding eliminates the need for grounding electrodes or rings, reducing installation costs and potential leak points. The same electronics platform is completely interchangeable across all VersaFlow magmeter sensors.



- The Mag 4000 electromagnetic flow sensor is designed for the most demanding applications. It is proven to be robust and reliable with more than 250,000 units operating in the field.
- The Mag 1000 electromagnetic flow sensor is the optimum solution for water and wastewater applications.
- The Mag 100 flow sensor is an economical solution for a wide range of applications.
- The Mag 2000 ceramic lined electromagnetic flow sensor is resistant against abrasion, corrosion and vacuum conditions. Both flanged and wafer/sandwich versions are available.
- The Mag 3000 is the electromagnetic flow sensor for the food and beverage industry manufactured in conformance to FDA requirements. EHEDG approval is available and highlights the hygienic design and the cleanability of the device.

All magmeters are available with a choice of transmitters. With a low cost (TWM1000) and a fully featured (TWM9000) transmitter choice, customers only pay for the features they need. All Honeywell transmitters are available in integral to sensor mount, or with the ability to remotely mount the electronics away from the metering tube.

VersaFlow™ Magnetic Flow Meters	Mag 4000	Mag 1000	Wafer Mag 100	Ceramic Lined Mag 2000	Hygienic Mag 3000
Temperatures (up to 180°C / 356°F) and low conductivity (from 1 S/cm)	•				
Quick to install and easy to operate	•	•	•	•	•
Maintenance free	•	•	•	•	•
Fully vacuum-resistant	•	•	•	•	•
Hazardous (Ex) approvals available	•	•		•	•
Chemically resistant to a wide range of processes	•		•	•	•
Insensitive against temperature shocks	•		•	•	•
Excellent long-term stability and accuracy	•	•	•	•	•
Permanently submersible, buried underground (option)	•	•			
Excellent price-performance ratio		•	•		
Drinking water approvals including KTW, WRc, KIWA, ACS		•			
Compliance with OIML R-49 and ISO 4064		•			
Fully functional wafer design flow sensor			•		
Suitable for abrasive fluids				•	
High-tech ceramics liner				•	
Developed in cooperation with customers from the food industry					•
Stainless steel design for hygienic and aseptic operation					•
Unique gasket concept meets EHEDG					•
Suitable for all CIP and SIP processes					•
All industry-specific connectors and lengths					•



VersaFlow™ Coriolis Mass Flow Meters	100	1000	200
Excellent zero stability	•	•	•
Low operating and installation costs	•	•	•
Insensitive of installation and external factors	•	•	•
Low pressure loss	•	•	•
Modular/plug and play electronics	•	•	•
Easily drained and easy to clean	•	•	•
Secondary pressure containment	•	•	•
Optional heating jacket	•	•	•
Sanitary/Hygienic designs	•	•	•
Innovative twin measuring tube	•		•
Optimized flow divider for minimum pressure loss	•		•
High accuracy with best price-performance ratio		•	•
Single straight measuring tube		•	
Sizes ¼" (DN 6) to 3" (DN 80)		•	
Sizes ½" (DN 15) to 2" (DN 50)	•		
Large tube size, 4" (DN100) to 10" (DN250) for bulk measurement			•
Choice of four different tube materials		•	

Coriolis Mass Flow: The VersaFlow Coriolis Mass flow meter measures mass flow, density, volume, temperature, mass or volume concentration and solids content with a single device. It is the only Coriolis sensor for mass flow applications with a straight measuring tube that is available in stainless steel, titanium, Hastelloy® or tantalum. It offers a high degree of accuracy, even for problematic applications.

- The **Coriolis 100** is the only Coriolis mass flow sensor in its class with secondary pressure containment as standard.
- The **Coriolis 1000** Coriolis mass flow sensor reliably measures mass flow, density, volume, temperature, mass or volume concentration and solids content.
- The **Coriolis 200** Coriolis mass flow sensor has been developed to meet the demanding transfer requirements of the oil and gas industry as well as products like syrup, molasses and raw chemicals.



The VersaFlow Coriolis transmitter platform, **TWC9000**, is available in compact (integral to the sensor), wall, field and rack mount versions with the basic HART/analog output or Honeywell's unique modular I/O capability with up to 4 discreet outputs. Full Modbus communication capability is available at the lowest possible cost with the **TWC010** that allows direct digital communication through the Modbus RTU protocol with full functionality.

Vortex Shedding Flow Meter:

Honeywell's VersaFlow Vortex 100 flow meter is the only design available with integrated pressure and temperature compensation in two-wire technology, providing maximum performance at the lowest installed cost. The Vortex flow meter provides reliable measurement of operating, standard volumetric and mass flow of conductive and non-conductive liquids, gases and vapors, even with fluctuating pressures and temperatures.



Clamp-on Ultrasonic Flow Meter:

With the VersaFlow Clamp-on Sonic 1000 flow meter, flow measurement can be done anywhere and startup is immediate. Its robust industrial construction and re-greasing concept provides a revolutionary solution for easy handling and reduced maintenance costs. The Sonic 1000 offers optimized reliability, minimal maintenance, easy sensor mounting and an installation wizard.



Wireless Field Transmitters.

Honeywell offers a broad solution set for wireless applications. Wireless transmitters obtain measurement data from remote and hazardous locations without the need to run wires, saving 50 percent or more on cable installation costs. Wireless technology enables improved safety, reliability and efficiency by providing a low cost way to add measurement points to your facility. Honeywell offer three levels of wireless field instrumentation to fit specific market needs.

XYR 6000 Wireless Field Transmitters

The XYR™ 6000 line of wireless transmitters is ISA100-ready and fully interoperable with Honeywell's highly secure and reliable OneWireless™ network. The transmitter transmits data to a wireless access point, or a series of access points, creating a fault-tolerant mesh network that maximizes uptime and data security. Enjoy a low cost of ownership with battery life of up to 10 years and update frequencies as fast as once per second.

XYR 5000 Wireless Field Transmitter System

XYR 5000 wireless transmitters are well-suited for wireless monitoring applications. Cost-effective and easy to install, the XYR 5000 wireless system can be up and running in minutes as a standalone system or tied into your process via 4-20mA output, Modbus or via OPC servers. These transmitters are battery powered with an expected battery life of 3-5 years and support up to 100 points per base radio at one second update rates. To expand your network, simply add more XYR 5000 transmitters and base radios.

Measurement Parameter	XYR 3000	XYR 5000	XYR 6000
Acoustic		•	
Corrosion			•
Discrete Input	•	•	•
Analog Input	•		•
pH and Conductivity		•	
Pressure - Absolute		•	•
Pressure - Differential		•	•
Pressure - Gauge		•	•
Tank Level Gauge			•
Temperature		•	•
Universal Input (discrete output)			•
Position			•

XYR 3000 High Density Wireless I/O Systems

The XYR 3000 line is a series of wireless multiplexers enabling remotely located wired instruments to wirelessly communicate measurement data long distances. These devices provide a basic wireless solution where there is a high-density of input/output and external electrical power is available. XYR 3000 multiplexer products provide multiprotocol support with flexible input and output options. With I/O expansion options, a small system can be scaled to include more I/O as needs change.

