



# Zone Sensors

Millions of people  
find comfort here



# The key to productive working environments



Over half the buildings in North America count on Trane equipment for total occupant comfort and productivity. At the center of it all is the complete family of Trane sensors featuring wired and wireless models dedicated to providing the accurate, reliable sensing that is critical to keeping HVAC systems running at optimum levels.

This family of sensors has been developed to provide ready solutions to every application; From executive suites to cafeterias and from classrooms to retail stores. Trane has the sensor to provide the perfect level of occupant control.

## Wireless temperature sensor (WTS)

*Effective monitoring:* The wireless temperature sensor (WTS) is ideal for environments where occupants are not allowed any local control of the occupied space. Ideal for classrooms, lecture halls, restaurants and retail stores.



## Wireless zone sensor (WZS)

*Economical control:* The WZS allows occupants limited local control of temperature settings and the ability to override the system's settings at any given time as space becomes occupied or unoccupied. Ideal for office spaces and classrooms.



## Wireless display sensor (WDS)

*Total comfort at your fingertips:* The newest member of the Trane family is the wireless display sensor (WDS). This state-of-the-art, configurable sensor gives occupants total control over their environment, along with a display that quickly conveys current space conditions and operating modes. Ideal for executive office suites or any place where total comfort should be in the hands of the occupant. The intuitive display makes it easy to adjust any setting.



## It's time to cut the cord and go wireless

The time for wireless technology is now. Trane wireless technology is perfect for new construction, remodels and retrofits. No wires means no worries. Imagine the savings to be made in money and time when you eliminate the cost of wiring schematics, conduit, running wires and much more. With wireless sensors you simply put them where you want them and move on. And when space configurations change you change the sensor position to fit the need. It's that easy.

## Wireless zone sensors



Trane sensors are integral to the performance of a Trane building controls system throughout the building lifecycle. Trane wireless sensors take advantage of advanced technology to overcome installation obstacles of time and cost and minimal ongoing maintenance. Count on Trane to keep the building running as well as it did at initial commissioning year after year.

	Features	Benefits
All models	Reduces installation time and expense	Reduces project expense and risk
	Location flexibility	Reduces life cycle costs due to: <ul style="list-style-type: none"> <li>• The ease of optimal mounting</li> <li>• Improved aesthetics</li> <li>• Comfort for higher productivity and ROI</li> </ul>
	Reliable operation	Minimal operation expenses, increased up-time, and increased ROI
WDS	Easy-to-use interface	Clear and simple monitoring and control
	Universal configurations	Can be configured for any Trane system and customer preference
WTS	Simplicity	Eliminates local temperature control when higher control level is required
WZS	Local control	Provides limited occupant temperature control and timed occupancy overrides

Model description		Part number	Global parts
Sensors	Universal display (WDS)	X1379082201	SEN01428
	Temperature-only (WTS)	X13790821	SEN01427
	°F Setpoint/override (WZS)	X13790492	SEN01364
	°C Setpoint/override (WZS)	X13790494	SEN01366
Receiver	100mW (milliwatt) 16 channel (North America)	X13790854	SEN01544
Sensor/receiver sets	Universal display (WDS)	X1379082401	SEN01430
	Temperature-only (WTS)	X1379082301	SEN01429
	°F Setpoint/override (WZS)	X13790496	SEN01367
	°C Setpoint/override (WZS)	X13790498	SEN01368

## Combination zone sensor



Features	Benefits
Two sensors in one enclosure	Reduces installation costs and improves building aesthetics
High accuracy	Reduces energy costs and improves environmental control and comfort
Maintenance-free design	Reduces field calibration and maintenance costs
Polymer capacitive element	Superb recovery from saturation reduces maintenance and downtime
Trane wall enclosure	Consistent enclosure design improves building aesthetics

Model description		Part number	BAYSENS	Global parts
Sensor	3% relative humidity and temperature	X1379044401	BAYSENS036A	SEN01177

## CO<sub>2</sub> zone sensor



Features	Benefits
High accuracy	Reduces energy costs and improves environmental quality
0-2000 ppm range	Effectively control CO <sub>2</sub> levels for optimized energy efficiency and air quality
Multiple outputs (0-10VDC or 4-20 mA)	Flexible for use with a wide range of Trane direct digital control (DDC)
Automatic self-diagnostics	Diagnostic tools are built-in for minimized troubleshooting expenses
Maintenance-free design	Auto-calibration and reduced maintenance costs
Trane wall enclosure	Consistent enclosure designs for improved aesthetics

Model description		Part number	BAYSENS	Global parts
Sensor	CO <sub>2</sub>	X13790422010	N/A	SEN01087



## Wired zone sensors



### Service to sustain

Reliable and intelligent Trane technology is just the start. The demands for occupant comfort, energy efficiency, environmental responsibility, and regulatory compliance are high today and will continue to increase, placing additional pressure on building professionals well into the future. Ongoing high performance is sustainable only through expert service. Trane Building Services offer facility managers a full range of options including parts, maintenance contracts, energy audits and retrofits.

Features	Benefits
Temperature setpoint control	Allows the tenant to choose a temperature setpoint that satisfies their personal preference
Fan and switch system	Allows the tenant to locally control the operating mode and fan speed to better satisfy their preference
Occupancy override	Allows the tenant to request temporary timed override system operation that permits the building conditions to remain in occupied comfort conditions
COMM Module (optional)	Compatible with all Trane wired temperature sensors. This optional accessory provides local RJ22 connection to Trane service tools for easy, low cost maintenance
Hot/cold thumbwheel (optional)	Allows the tenant to choose a temperature setpoint relative to their zone of comfort as opposed to exact numbers

Description					Part number		
Setpoint	Fan	System	Occupancy	LED	Part number	BAYSENS	Global
Single	N/A	N/A	Yes	N/A	X1351152701	BAYSENS074A	SEN01447
N/A	N/A	N/A	N/A	N/A	X1351152801	BAYSENS077A	SEN01448
Single	N/A	N/A	N/A	N/A	X1351152901	BAYSENS075A	SEN01449
N/A	N/A	N/A	Yes	N/A	X1351153001	BAYSENS073A	SEN01450
Single	Off/Auto	N/A	Yes	N/A	X1379084501	N/A	SEN01521
Single	Off/Run	N/A	Yes	N/A	X1379085101	N/A	SEN01527
Single	Off/Auto/Low/High	N/A	Yes	N/A	X1379084801	N/A	SEN01524
Single	Off/Auto/Low/Med/High	N/A	N/A	N/A	X1379084101	N/A	SEN01517
Single	Off/Auto/Low/Med/High	N/A	Yes	N/A	X1379084201	N/A	SEN01518
Dual	Auto/High	Cool/Off/Auto/Heat/EH	N/A	Yes	X1379084701	BAYSENS109A	SEN01523
Single	Auto/High	Cool/Off/Heat/EH	N/A	Yes	X1379085201	BAYSENS107A	SEN01528
Dual	Auto/High	Cool/Off/Auto/Heat	N/A	N/A	X1379083701	BAYSENS108A	SEN01513
Dual	Auto/High	Cool/Off/Auto/Heat	N/A	Yes	X1379084601	BAYSENS110A	SEN01522
Single	Auto/High	Cool/Off/Heat	N/A	N/A	X1379083901	BAYSENS106A	SEN01515
Single	Low/High	Cool/Off/Heat/Fan	N/A	N/A	X1379085001	N/A	SEN01526
Temperature sensor with LCD display is preconfigured with single setpoint and occupancy enabled and is also field configurable					X1379088601	N/A	SEN01599
COMM Module (box of 12)					X1365146702	BAYCOMM005A	CON01313
Thumbwheel; hot/cold (box of 12)					X1316105702	N/A	KNB00182



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