



# Product Data Sheet

## Communicating Thermostats for Rooftop and Heat Pump Control

Trane Communicating Thermostats are ideal for existing building retrofits and controls upgrades when integration with a building automation system is desired. Increased energy efficiency can be gained through use of the economizer output or through the use of optional covers with built-in occupancy sensors.

Existing thermostat wire and junction box and conduit can often be re-used to reduce installation hardware and labor cost. A hinged PCB board, removable terminal blocks, and onboard configuration can further reduce installation and commissioning time and expense.

### Ordering Numbers

Use the following ordering numbers.

Description	Protocol/ Interface	Part Number
Rooftop 2H2C Econ	BACnet	X13511541010
Rooftop 2H2C Econ	LON	X13511541020
Heat Pump 3H2C	BACnet	X13511542010
Heat Pump 3H2C	LON	X13511542020
Heat Pump w/Humidity	BACnet	X13511541050
Heat Pump w/Humidity	LON	X13511541080
<b>Optional Cover with Occupancy Sensor</b>	NA or RTU/HP	X13511544020



**Easy-to-use  
Interface for  
Setup and Daily  
Operation**



**Optional  
Integrated  
Occupancy  
Sensor**



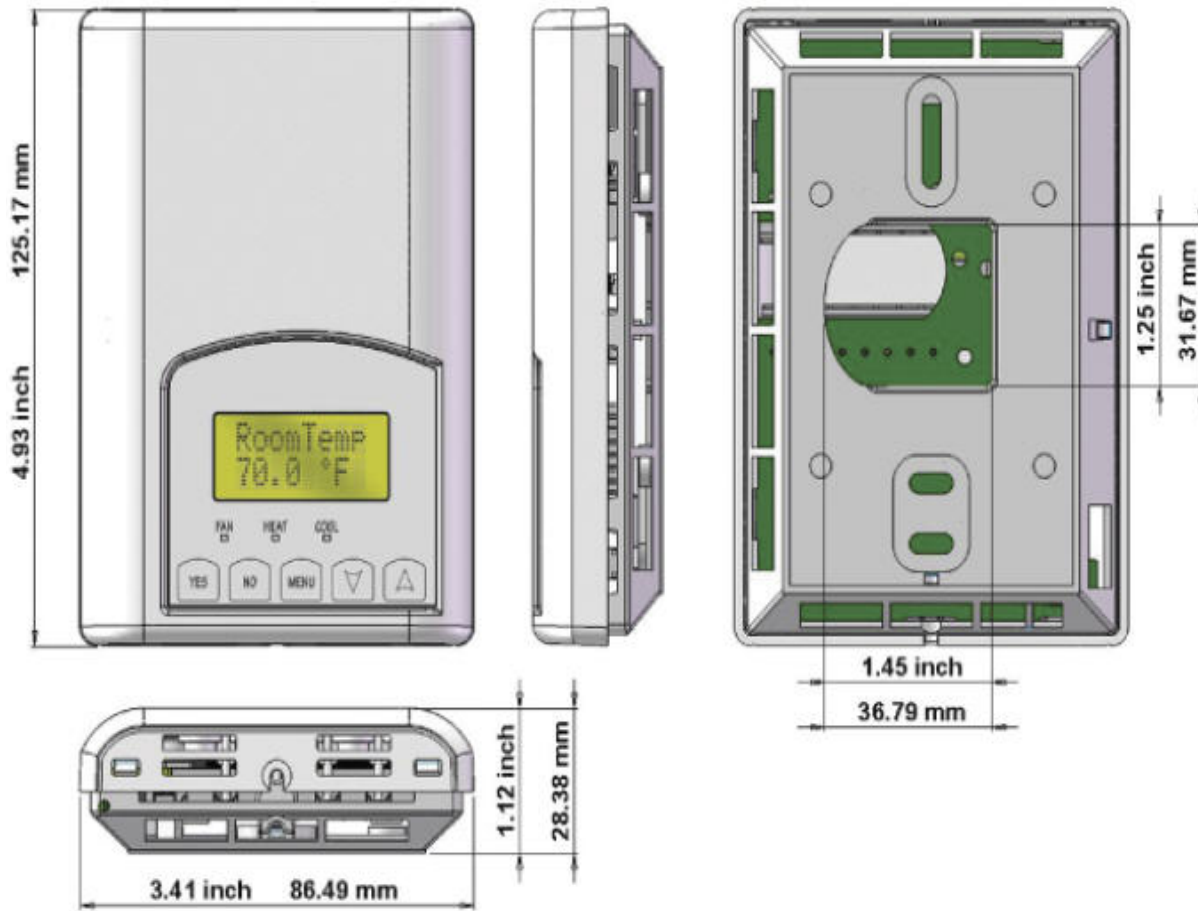
## Features and Benefits

Feature	Benefit
BACnet or LON Communication	Open standard building automation communications protocols enable connections to other BAS systems and controllers. See agency compliance below.
Easy-to-use Interface	Includes a simple user interface for reduced installation time and trouble-free operation.
Advanced Monitoring	Capable of sending remote alarms for faster troubleshooting. Optional binary input can be used for local monitoring, or optional analog inputs (2) can be used for supply air temperature monitoring.
Optional Occupancy Sensors	Integrated occupancy sensors allow reduced energy consumption while people are not present.

## Controller Specifications and Agency Compliance

Storage	
Temperature	-22°F to 122°F (-30°C to 50°C)
Relative humidity	0% to 95% R.H. non-condensing
Operating	
Temperature	32°F to 122°F (0°C to 50°C)
Humidity	0% to 95% R.H. non-condensing
Power	19-30 VAC 50 or 60 Hz; 2 VA ( RC & C ) Class 2 RC to RH jumper 2.0 Amps 48 VA maximum
Weight	0.75 lb (0.34 kg)
Resolution	±0.2°F (±0.1°C)
Control accuracy	±0.9°F (±0.5°C) @ 70°F (21°C) typical calibrated
Occupied and unoccupied setpoint range	Cooling: 54 to 100°F (12.0 to 37.5°C) Heating: 40°F to 90°F (4.5°C to 32°C)
Room and outdoor air temperature range	-40°F to 122°F (-40°C to 50°C)
Proportional band for room temperature control:	Factory set, heating and cooling at 2.0°F (1.1°C)
Digital inputs	Relay dry contact only across C terminal to DI1 or DI2
Contact output rating	Each relay output: ( Y1, Y2, G, W1, W2 & AU ) 30 VAC 1 Amp. maximum 30 VAC 3 Amp. in-rush
Economizer analog output rating	0 to 10 VDC into 2KΩ resistance min.
Economizer analog output accuracy	±3% typical
Wiring	
22 AWG (recommended) copper wire (18AWG maximum)	
Agency Compliance	
<ul style="list-style-type: none"> <li>• UL: UL 873 (US) and CSA C22.2 No. 24 (Canada), File E27734 with CCN XAPX (US) and XAPX7 (Canada)</li> <li>• Industry Canada: ICES-003 (Canada)</li> <li>• FCC: Compliant to CFR 47, Part 15, Subpart B, Class A (US)</li> <li>• CE: EMC Directive 89/336/EEC (Europe Union)</li> <li>• LonMark 5500-SCC-Generic Certified Device Class</li> </ul>	

## Dimensions





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BAS-PRC064-EN 21 Sep 2012  
Supersedes: 04 May 2011

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