

RedLINK™ Accessories

THM5421 Prestige® 2-Wire IAQ Comfort System Equipment Interface Module



THM5421 Equipment Interface Module for Prestige® IAQ and VisionPRO® 8000 with RedLINK™. Equipment Interface Module controls up to 4-stages of heat and 2-stages of cool in a heat pump system and up to 3-stages of heat and 2-stages of cool in a conventional system. Three sets of Universal IAQ contacts to control humidification, dehumidification, and ventilation. Four sensor inputs for wired sensors or dry contact devices.

Applications: Gas, oil, electric, heat pump, forced warm air, hot water, steam or gravity

Mounting: Vertical

Color: Gray

Operating Temperature Range: -40°F to 165°F (-40°C to 73.9°C)

Operating Humidity Range (% RH): 5 to 95% RH, non-condensing

Power Method: Hardwired

Supply Voltage: 18 to 30 Vac

Frequency: 50 Hz; 60 Hz

Electrical Connections: Screw terminals

Electrical Ratings: 18 to 30 Vac

Dimensions: 9 5/16 in. High, 4 13/16 in. Wide, 1 5/8 in. Deep (237.4 mm High, 122.5 mm Wide, 40.6 mm Deep)

Cool Current: 1.0 A running

Heat Current: 1.0 A running

Fan Current: 0.5A running



Material Number	Terminal Designations	Stages	Includes	Used With
THM5421R1021/U	R, RC, RH, C, W-O/B, W2-AUX1, W3-AUX2, Y, Y2, G, A-L/A, U1, U1, U2, U2, U3, U3, S1, S1, S2, S2, S3, S3, S4, S4, A, B, C, D	Up to 4 Heat / 2 Cool Heat Pump or Up to 3 Heat / 2 Cool Conventional	THM5421R1021 Equipment Interface Module	All THX9421R5021 Prestige® 2-Wire IAQ Thermostats and all versions of Prestige® IAQ Thermostats and the VisionPRO® Thermostats with RedLINK™ technology.
YTHM5421R1010/U	R, RC, RH, C, W-O/B, W2-AUX1, W3-AUX2, Y, Y2, G, A-L/A, U1, U1, U2, U2, U3, U3, S1, S1, S2, S2, S3, S3, S4, S4, A, B, C, D	Up to 4 Heat / 2 Cool Heat Pump or Up to 3 Heat / 2 Cool Conventional	THM5421R1021 Equipment Interface Module and 2 Duct Sensors	All THX9421R5021 Prestige® 2-Wire IAQ Thermostats and all versions of Prestige® IAQ Thermostats and the VisionPRO® Thermostats with RedLINK™ technology.

ERM5220R Equipment Remote Module



ERM5220R Equipment Remote Module provides wireless RedLINK™ communication between condensing unit/compressor or boiler and thermostat. Use it whenever it's too costly or time-consuming to run wires from a condensing unit or boiler to control devices. Suitable for outdoor use. Temperature sensor terminals for outdoor temp sensors or indoor freeze protection. LEDs for easy installation checkout.

Applications: Gas, oil, electric, heat pump, forced warm air, hot water, steam or gravity

Mounting: Vertical

Color: Gray

Operating Temperature Range:

Compressor: -40°F to +155°F (-40°C to +68°C)

Boiler: 30°F to +130°F (-1°C to +54°C)

Operating Humidity Range (% RH): 5 to 99% RH, non-condensing

Power Method: Hardwired

Supply Voltage: 24 Vac

Frequency: 50 Hz; 60 Hz

Electrical Connections: Screw terminals

Electrical Ratings: 24 Vac

Dimensions: 6-39/64 in. High, 6-7/8 in. Wide, 1-31/64 in. Deep
168 mm High, 175 mm Wide, 38 mm Deep



Material Number	Terminal Designations	Stages	Includes	Used With
ERM5220R1018	J, R, C, Y, Y2, O/B, D, L, S1, S1	Up to 2 Heat / 2 Cool Heat Pump or Up to 2 Stage Conventional	ERM5220R Equipment Remote Module	THX9421R5021, TH8321R1001 and EIM (when EIM is required).
YERM5220R8321	ERM-J, R, C, Y, Y2, O/B, D, L, S1, S1	Up to 2 Heat / 2 Cool Heat Pump or Up to 2 Stage Conventional	ERM5220R1018 Equipment Remote Module and TH8321R1001 VisionPRO 8000	
YERM5220RVPEIM	ERM-J, R, C, Y, Y2, O/B, D, L, S1, S1	Up to 2 Heat / 2 Cool Heat Pump or Up to 2 Stage Conventional	ERM5220R1018 Equipment Remote Module, TH8321R1001 VisionPRO 8000, and THM5421R1021 Equipment Interface Module	