



SUBMITTAL : 91101-45190

Tank Temperature Sensor



Job Name	Location		
Purchaser	Engineer		
Submitted to	Reference <input type="checkbox"/>	Approval <input type="checkbox"/>	Construction <input type="checkbox"/>
Unit Designation	Schedule #		

Specifications	91101-45190
Performance	
Resistance at 50°F (Ohms)	20,500Ω
Resistance at 68°F (Ohms)	12,500Ω
Resistance at 86°F (Ohms)	8,100Ω
Resistance at 104°F (Ohms)	5,300Ω
Resistance at 122°F (Ohms)	3,600Ω
Resistance at 140°F (Ohms)	2,500Ω
Resistance at 150°F (Ohms)	2,070Ω
Accuracy	Plus/Minus 3%
Physical Data	
Barrel material	Copper
Barrel size	Ø1/4" x 1"
Wire size	18 AWG
Wire length	Sensor is 12 3/4" OR 18 3/4" in wire length

Construction

Thermistor shall be constructed with a Copper barrel for temperature sensing resin bonded to 2 x 18AWG leads for connection to the GS4-45HPC or GS4-45HPC-D Heat Pump

Sensing

Sensing shall be via a micro chip thermistor with an accuracy of +/- 3%

Voltage

Heat Pump shall provide a 5VDC signal to the thermistor

Installation of Tank Temperature Sensor

Thermistor shall be inserted into a dry thermal well
Heat Transfer paste is not required
Flying leads shall require wire stripping for connection to Heat Pump thermistor wiring
Thermistor shall not be polarity sensitive

Application

Each GS4 Heat Pump unit shall require an individual thermistor.
It shall not be permissible to connect multiple Heat Pump units to one thermistor

