Date:_____

Project:_____ Location:_____

Contractor:_____ Distributor:_____

Basic System Components (Required)

	Part Number	Description	Application Details	Quantity	Model
☑	Model 8800	Communicating Thermostat	**Requires 1 per zone of HVAC or Humidity control.** Controls Heat/Cool, or Heat Pump, Single or Multi-Stage Equipment. Humidifier and Dehumidifier.	_____	8800
☑	Model 8826	System Controller	**Requires 1 per 24 thermostats.** Provides centralized control up to 24 thermostats. Provides energy management settings, and schedules for thermostats. For Applications over 24 thermostats additional units are required.	_____	8826
☑	Model 8819	Distribution Panel	**Requires 1 per 8 thermostats.** Distributes communications for up to 8 thermostats. For applications over 8 thermostats additional units are required.	_____	8819

Optional System Components

	Part Number	Description	Application Details	Quantity	Model
☐	Model 8051	Flush Mount Temperature Sensor	See guidelines on back	_____	8051
☐	Model 8052	Outdoor Duct Mount Remote Temperature Sensor	See guidelines on back	_____	8052
☐	Model 8053	Surface Mount Temperature Sensor	See guidelines on back	_____	8053
☐	Model 8081	Surface Mount Remote Temperature Sensor/ Support Module	See guidelines on back	_____	8081
☐	Model 8082	Surface Mount Remote Humidity Sensor/ Support Module	See guidelines on back	_____	8082
☐	Model 8811	232/485 Protocol Adapter (check out/troubleshooting)	1 per 32 thermostats	_____	8811

GUIDELINES FOR OPTIONAL REMOTE SENSORS

Remote Temperature Sensors

The 8051/8052/8053 can be wired directly to the model 8800 thermostat on either S1/S2 or T1/T2 terminals. S1/S2 for outdoor temperature reporting. T1/T2 for a control temperature sensor.

Model 8051 Flush mount temperature sensor:
- For indoor use only
- Installed in Drywall applications where surface mount sensor is not appropriate
- Required 1/64" between wall and sensor to measure air temperature

Model 8052 Duct/outdoor temperature sensor:
- For indoor or outdoor use
- Used to monitor air temps for diagnostic purposes (plenum temp, Critical area temperatures, freezers, coolers, etc.)
- Can not be used to measure water temperature

Model 8053 Surface mount temperature sensor:
- For indoor use only
- Used where uniform installation is requested by customer. For averaging with 8061 and 2nd surface mount sensor

Model 8081 and 8082 modules:
- Used to report temperature and relative humidity values back to the thermostat
- As many as 4 – 8081/8082 modules can be used per thermostat (in any combination totaling no more than 4)
- Temperature/Humidity values can be configured to control or monitor
  - Control values will be used to activate and deactivate the equipment, multiple sensors set to control will provide an average value
  - Monitor values are just for informative purposes

Model 8081:
- Supports up to 2 temperature sensors
- There is 1 on board sensor (can be disabled if off board temperature sensor is used through dipswitch)
- Options include:
  - 1 on board sensor
  - 1 on board and 1 off board sensor
  - 1 off board sensor
  - 2 off board sensor
- For indoor use only

Model 8062:
- Supports 1 temperature and 1 Relative Humidity
- The Relative Humidity is built onto the board
- There is 1 on board temperature sensor (can be disabled if an off board temperature sensor is used)
- Options include:
  - 1 on board temperature sensor
  - 1 off board temperature sensor
  - You can average up to 4 humidity values with 4 - 8062 connected to the thermostat.
- For indoor use only

WIRING GUIDELINES

Wiring Length of runs guidelines:
- Maximum distance between the 8826 System Controller and 8800 Thermostat is 4000 ft., the 8819 Distribution Panel can be located anywhere within this run.
- Maximum distance between the 8800 Thermostat and a 8081/8082 Sensor is 1000 ft.
- Maximum distance between a 8800/8081/8082 and a 8051/8052/8053 Remote Sensor is 300 ft.

Wire Types:
- Use Category 5 (CAT5) or equivalent for,
  - 8826 to 8819
  - 8819 to 8800
  - 8800 to 8081/8082/8051/8052/8053
  - 8081/8082 to 8051/8052/8053
- Use standard 18 gauge thermostat wire for,
  - 8800 to HVAC System or Humidifier or Dehumidifier
  - 8051/8052/8053 to 8800/8081/8082