

Description

The 202-11LS is a “plug-in” Interface card that provides an additional zone function when used in conjunction with the 200-3 Flow Controller (direct or reverse acting). Automatic changeover is initiated from supply air temperature.

Flow Description

Direct/Reverse acting systems furnish cold/warm conditioned air to the controlled space. The 202-11LS-1 Interface initiates a changeover based on the temperature of the air being supplied to the space, and switches the 200-3 Flow Controller to the appropriate cold (direct) or warm (reverse) acting mode. Changeover occurs at fixed, non adjustable factory settings. These temperature setpoints are 70°F for direct acting mode and 86°F for reverse acting mode. Space temperature has no effect on the changeover point; changeover is dictated solely by the temperature of the supply air.

A typical application would include systems that could provide cold or warm supply air to the conditioned space via the same air distribution system on demand. Another application would be a VAV system that incorporates a morning warm up cycle. During morning warm up, proportional control of the airflow to the space is available.

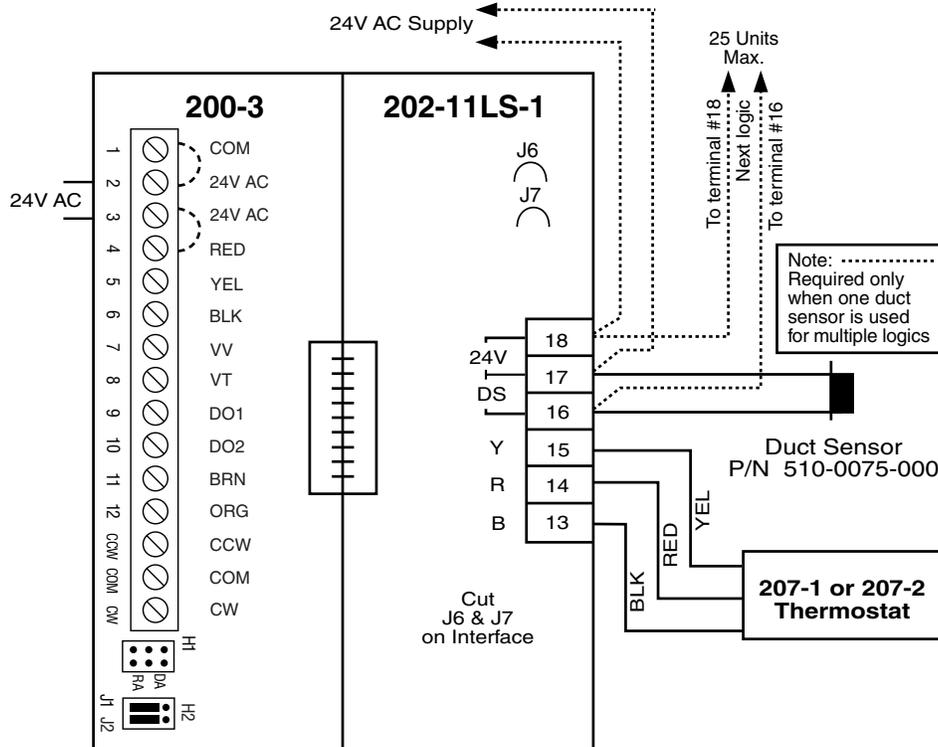
The 202-11LS-1 Interface card does not include the sensor (P/N 510-0075-002). One sensor can provide a control signal for up to twenty-five 202-11LS-1 Series Interfaces.

The 202-11LS-1 incorporates a 9 pin male connector and fits the optional extended mounting track that is available for all 200-3 Flow Controllers.

Application

When other operating changeover ranges are desired and duct sensors other than P/N 510-0075-002 are used, gold contacts are required for initiating change over.

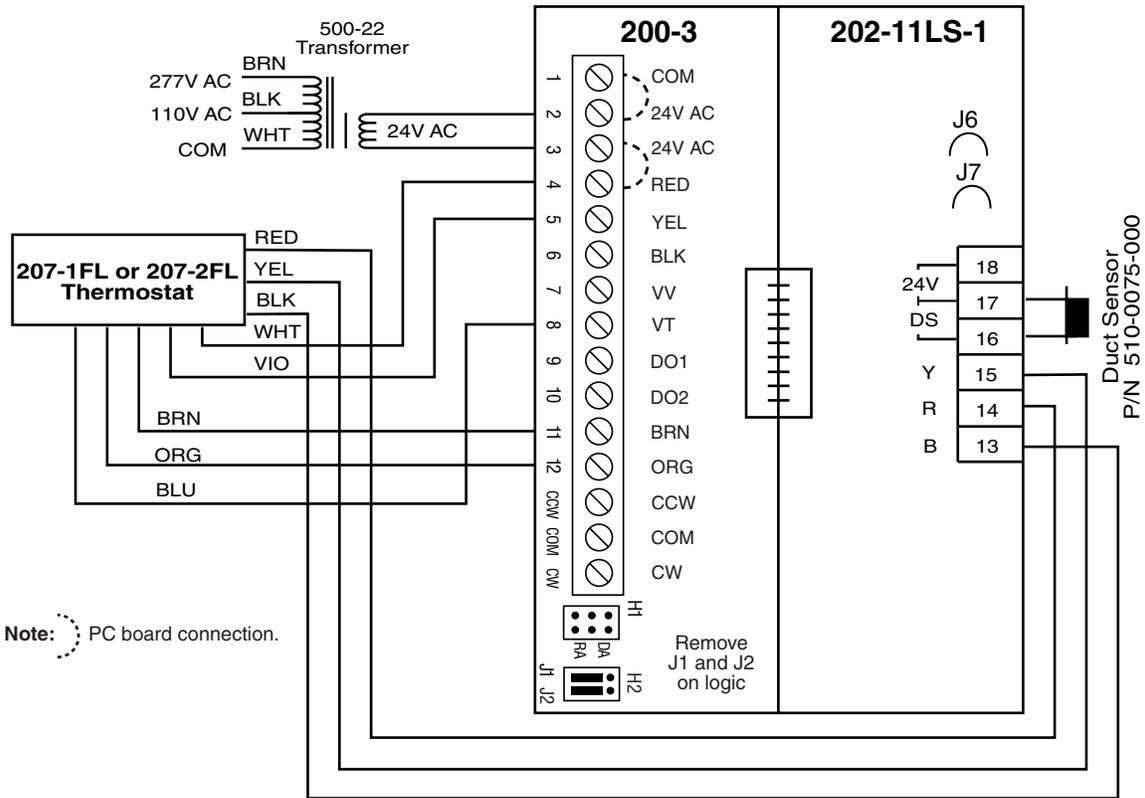
Note: 1 & 2, and 3 & 4 are common on the PC board.



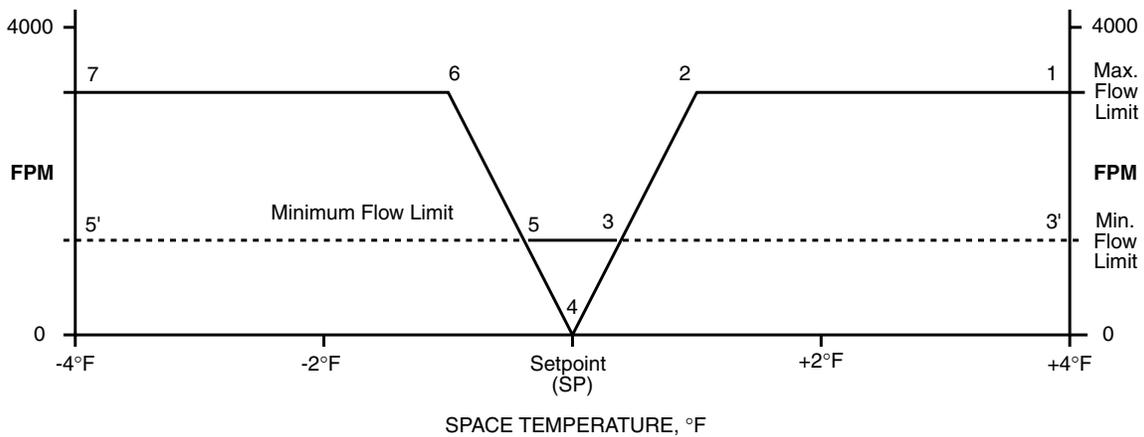
Note: PC board connection.

200-3 Flow Controller & 202-11LS-1 Interface with One Duct Sensor Per Logic, or One Duct Sensor for Multiple Logics, and a 207-1 or 207-2 Thermostat

Note: 1 & 2, and 3 & 4 are common on the PC board.



200-3 Flow Controller & 202-11LS-1 Interface with Duct Sensor and 207-1FL or 207-2FL Thermostat



FLOW FUNCTION

- a. 1 - 2 or 7 - 6 indicates maximum flow at Max. Flow Limit. Room comes under control at 2 for direct acting and at 6 for reverse acting.
- b. At 2 or 6, flow is regulated over approximately 2.3°F throttling range by damper until Min. Flow Limit at 3 or 5 is obtained, or shut off at 4 is reached.
- c. Min. Flow Limit 3 - 5 continues as space temperature continues to rise/fall.
- d. Automatic Changeover may occur anywhere in the flow temperature diagrams when temperature of the supply air changes to 70°F for direct acting (cold) or 86°F for reverse acting (warm).
- e. Once changeover occurs, room conditions are brought under control:
 2 - 3 or 2 - 4, direct acting
 6 - 5 or 6 - 4, reverse acting

202-11LS-1 Flow Function

Hoffman|Controls