Procedure for Point Connections

Document: 6.1
Date 3-17-02
Supersedes:

As part of the Standard Practices, **Invensys Field Offices will determine their point connections to controllers by using the "Standard Point Connections" document.**

A few of the benefits of using Standard Point Connections are:

1. Hardware drawings can be shared without having to relocate I/O terminations.
2. With standard connections guidelines, initial product applications can be created to coordinate with field office practices.
3. Selection of connections can be made quickly.
4. Software can be shared. You will be able to use an existing program without having to edit the physical point location on the software drawing or actual database.

Point connection standards are often misunderstood.

STANDARD POINT CONNECTIONS FOR MZII & MNL-800 AHU/RTU

UI1	RETURN AIR TEMPERATURE
UI2	MIXED AIR TEMPERATURE
UI3	DISCHARGE AIR TEMPERATURE
UI4	SPACE TEMPERATURE
UI5	SUPPLY FAN STATUS (DP OR CT)
UI6	RETURN FAN STATUS (DP OR CT)
UI7	RETURN AIR OR SPACE R.H.
UI8	DISCHARGE AIR R.H.

Do not interpret the Standard Point Connections as a list of what should be shown on a System. You only supply the points necessary to create a working system that will comply with specifications.

If any of the sensors shown above **are necessary** for your AHU, and you are using a MZII, they should be located on the physical points that are shown.

If a sensor shown above **is not necessary**, you should leave this connection empty or feel free to use this point for another input that is not already shown on the standard list.

Example 1: If there is a return air sensor necessary on your AHU and you are using a MZII, put it on UI1. If a return air sensor is not necessary and it is necessary to supply an outside air sensor, you can use UI1 for the outside air sensor if you wish.

Example 2: There are times when more than 1 controller is necessary due to point count. In an attempt to keep control loops in the same controller you may move certain points to the second controller. For example if you were maintaining static pressure by controlling a VFD, you might put the supply air static pressure sensor on UI7 of controller #1, and move the Return Air R.H. to UI7 of the controller #2.

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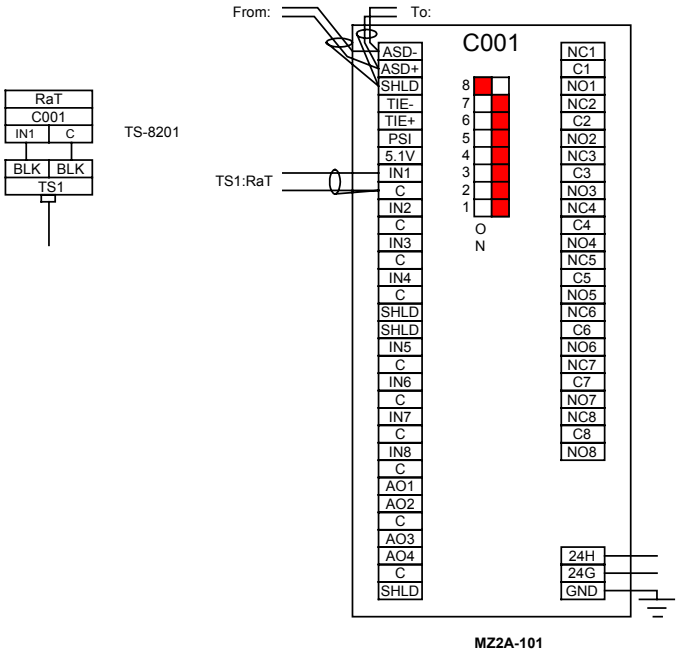

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