



RADIANT HEATING AND COOLING SYSTEMS

CLIMATE CONTROL™ NETWORK SYSTEM RELAYS AND CONTROLS

TECHNICAL BULLETIN



Boiler Relay, Modulating
0-10VDC (A9012020)



Primary Equipment Control
(PEC) (A9012000)



Modulating Valve Control,
0-10v (A9063020)



Supply Water Temperature Control
(SWT) (A9013000)

Affected Products

- Boiler Relay, Modulating 0-10VDC (A9012020) with Primary Equipment Control (PEC) (A9012000)
- Modulating Valve Control, 0-10v (A9063020) with Supply Water Temperature Control (SWT) (A9013000)

Issue

When connecting the relay or control to its corresponding controller, the communications to the PEC or SWT stop working and the Field Module light on the Router Main Control (RTR) changes to solid red.

Note: If while wiring third-party devices, the communications network suddenly stops working and a solid green (Tx) or red (Rx) light appears on any of the Network System controllers, it is important to completely review the power wiring prior to continuing.

Cause

Wiring a powered, third-party device to a direct-modulating output connects the power systems together. This type of connection only works if the power systems are completely isolated or if the grounding polarity of low-voltage (Class II) devices is carefully observed. If voltage is present in either of these cases, possible causes include transformer polarity, transformer grounding, bad transformers or connection to the line voltage terminals.

Resolution

With both systems powered on and before making the final connection, check the AC and DC voltage from common to common and from 0-10VDC output to 0-10VDC input. There should be no (or almost no) voltage potential between these terminals in AC or DC.

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