

June 10, 2012

SUBJECT: MicroNet Analog Combo Module Speed Sensing Wiring

TO: Whom It May Concern

The letter is in response to a request made by product users for information regarding the changes made to the wiring requirements of Woodward's MicroNet Analog Combo module. The purpose of this letter is to inform customers/users of Woodward's actions regarding changes to its MicroNet Analog Combo Module wiring requirements.

Due to inquiries from multiple customers over a period of several years regarding the possibility of Woodward's MicroNet Analog Combo modules (part numbers 5466-316 & 5466-253) intermittently sensing speed at a higher level than actual, Woodward performed a root-cause analysis investigation in on this module and its application. This investigation was performed throughout the months of late 2010 and early 2011.

During the investigation, it was noted that with over 5200 modules installed globally, only four customers made inquiries regarding the possibility of a problem with these modules intermittently sensing the wrong (too high) turbine speed.

Through monitoring specific installed MicroNet systems and in-plant module testing it was discovered that a combination of site conditions (installation, grounding scheme, high-energy noise proximity, etc.) and our Analog Combo's speed sensing circuit design could result in noise being induced into the module's non-used input speed circuit (MPU or Prox.) or system ground plane and intermittently sensed as a high speed level by the module's used input circuit.

During the module issue investigation project, it was validated that the issue could be resolved by installing a wire jumper across the non-used speed circuit (MPU or PROX). The following improvements and actions were then performed to inform users of these modules of this issue and instruct them on how to install Analog Combo modules 5466-316 & 5466-253 to resolve the above listed issue:

- 1) Created and distributed Application Note #51314 to all documented Woodward MicroNet customers, Woodward application teams, Woodward service teams, and Woodward authorized aftermarket retrofit/service companies.
- 2) Modified MicroNet manuals 26166, 26167, and 26518 by updating system wiring diagrams and adding related warnings.

Please refer to Application Note #51314 or manuals 26166, 26167, or 26518 for detailed information regarding the above explained module improvements.

Regards,

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