



## MicroNet™ High Density Analog I/O Module Replacement

### Product Change / Improvement

The legacy MicroNet™ HDA (High Density Analog) I/O modules were replaced by an updated module series based on the “SmartPlus” architecture. Production of the old modules ended in 2015. The new modules are listed in the “Updated Products” section below. For most MicroNet Plus and 5200 TMR applications, we offer drop-in replacement versions which have the same functionality and work with existing GAP blocks.

Please note that Woodward will continue to offer repair services and service exchange (where available) on the legacy HDA modules.

### Obsolete Modules

**Table 1. Obsolete MicroNet HDA Modules**

Program	Upper Level	Description
MicroNet	5466-257	24 Analog Inputs (0-5V), 8 Analog Outputs (4-20 mA). For TMR use
MicroNet	5466-315	24 Analog Inputs (4-20 mA), 8 Analog Outputs (4-20 mA). For simplex use
MicroNet	5466-332	24 Analog Inputs (4-20 mA) with reduced filtering on channels 23/24, 8 Analog Outputs (4-20 mA). For simplex use
MicroNet	5466-425	24 Analog Inputs (0-5V) with reduced filtering on channels 23/24. 8 Analog Outputs (4-20mA). For use with Dataforth FTM
MicroNet	5503-904	12 Analog Inputs (4-20 mA), 12 Analog Inputs (0-5 V), 8 Analog Outputs (4-20 mA)

Existing MicroNet HDA Modules (except 5503-904) are being replaced by new drop-in replacement High Density Analog I/O Modules. There is also an enhanced module, 5466-5025, which was released in 2016 and offers software selectable inputs and other new features. This module can replace 5503-904 but requires a Coder update as noted below.

### Updated Products

**Table 2. MicroNet 24/8 Analog I/O Smart-Plus Modules**

Program	Upper Level	Description	Replaces Upper Level
MicroNet	5466-5025 <sup>(1)</sup>	24 Analog Inputs (Selectable 4-20 mA or 0-5 V), 8 Analog Outputs (4-20 mA), Isolated I/O. For all applications, updated Coder required	5503-904 <sup>(3)</sup>
MicroNet	5466-5026 <sup>(2)</sup>	24 Analog Inputs (4-20 mA), 8 Analog Outputs (4-20 mA). For simplex applications	5466-315 <sup>(4)</sup> 5466-332
MicroNet	5466-5027 <sup>(2)</sup>	24 Analog Inputs (0-5V), 8 Analog Outputs (4-20 mA). For TMR and Dataforth FTMs	5466-425 5466-257 <sup>(5)</sup>

**Note:**

- (1) Module -5025 requires Coder version MN1.00 or later for MicroNet Plus and version TMR1.00-1 or later for use on MicroNet TMR. Systems running older Coder versions must use the -5026 or -5027 backwards compatible modules.
- (2) Backwards compatible versions have been tested with Coder Versions 4.06 (MicroNet Plus), 5.04 (MicroNet TMR) and later.
- (3) Customers needing to replace 5503-904 with 5466-5025 will require a Coder update per note (1) above
- (4) Item 5466-5026 may be used in place of the 5466-315 if it is acceptable to have 5mS Anti-aliasing filter on A/I channels 23/24 (vs 10mS anti-aliasing filter). Please consult application engineering.
- (5) Item 5466-5027 may be used in place of the 5466-257 if it is acceptable to have 5mS Anti-aliasing filter on A/I channels 23/24 (vs 10mS anti-aliasing filter). Please consult application engineering.
- (6) The modules listed above have been validated with 5200 and later CPUs only. Customers with older CPUs should contact Woodward for options.

For installation and usage information, please see Woodward manual 26166.

## Customer Action

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Please migrate all new production orders to the new High Density Analog modules. Customers with Netcon and MicroNet Simplex systems (pre-5200 CPU) should consider upgrading. For information on how to upgrade your system, please refer to manual 26166 or consult with Woodward Technical Support as indicated below.

For additional information and support:

1. Contact your local Woodward representative and/or turbine OEM.
  2. Woodward contact and business partner information can be obtained at [www.woodward.com](http://www.woodward.com).
  3. Technical assistance can be obtained by:
    - a. Searching for a local contact at [www.woodward.com/directory](http://www.woodward.com/directory)
    - b. Call or email the Woodward Turbine Help Desk: 1-970-498-3095  
[TurbineHelpDesk@woodward.com](mailto:TurbineHelpDesk@woodward.com)
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