

## Automation Products

### AC500-eCo

## Product News AC500-eCo S500-eCo I/O modules

### S500-eCo I/O module AI563 with new wire break detection feature



19.03.2014 rev 1  
21.01.2015

#### Modified AI563 module

The temperature measurement module AI563 was modified and is now available with the new wire break detection feature.

The AI563 thermocouple module is suitable for applications requiring temperature measurement with wire break detection of the sensor wires.

#### Features

- When a wire break occurs on a sensor wire, the temperature measurement value of the corresponding channel changes to Overflow (Hexadecimal 7FFF).
- The module is upward compatible to the previous versions and contains a new firmware version.
- The existing device description can be used. An update of Automation Builder is not required.
- The feature is implemented in all modules starting from production index A5.

#### Applications

Wire break detection is typically required when temperature measurement is needed for temperature control of heaters in e.g. extrusion applications.

#### Advantages

- Wire break detection feature
- The thermocouple module allows to replace separate temperature controllers and integrate temperature control tasks in the PLC application.
- 4 analog input channels in one module

Ordering details of the module remain valid - no change in ordering process

Product Designation/Product Type	Order Code	Description
AI563	1TNE968902R1103	AI563: S500, Analog Input Module, 4AI Thermocouple S,T,R,E,N,K,J 15bit+sign, 24 V DC, 2-wire

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## Terminal blocks suitable for S500-eCo I/O modules

The modules are delivered without terminal blocks. The terminal blocks used for AC500-eCo CPUs and S500-eCo I/O modules are identical. For each new module one nine pole and one eleven pole terminal block is required and must be ordered separately.

19.03.2014 rev 1  
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Description	Product Designation for 9 pole terminal block	Order Code for 9 pole terminal blocks (Quantity: 6 pieces)	Product Designation for 11 pole terminal block	Order Code for 11 pole terminal blocks (Quantity: 6 pieces)
Screw type terminal block with cable insertion from the side	TA563-9	1TNE968901R3101	TA563-11	1TNE968901R3102
Screw type terminal block with cable insertion from the front	TA564-9	1TNE968901R3103	TA564-11	1TNE968901R3104
Spring type terminal block with cable insertion from the front	TA565-9	1TNE968901R3105	TA565-11	1TNE968901R3106

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