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

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

(page 1 of 2)
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.

<table>
<thead>
<tr>
<th>Description</th>
<th>Product Designation for 9 pole terminal block</th>
<th>Order Code for 9 pole terminal blocks (Quantity: 6 pieces)</th>
<th>Product Designation for 11 pole terminal block</th>
<th>Order Code for 11 pole terminal blocks (Quantity: 6 pieces)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screw type terminal block with cable insertion from the side</td>
<td>TA563-9</td>
<td>1TNE968901R3101</td>
<td>TA563-11</td>
<td>1TNE968901R3102</td>
</tr>
<tr>
<td>Screw type terminal block with cable insertion from the front</td>
<td>TA564-9</td>
<td>1TNE968901R3103</td>
<td>TA564-11</td>
<td>1TNE968901R3104</td>
</tr>
<tr>
<td>Spring type terminal block with cable insertion from the front</td>
<td>TA565-9</td>
<td>1TNE968901R3105</td>
<td>TA565-11</td>
<td>1TNE968901R3106</td>
</tr>
</tbody>
</table>

ABB Automation Products GmbH
Wallstadter Str. 59
68526 Ladenburg
Germany
Phone: +49 (0) 6221 701-1444
Fax: +49 (0) 6221 701-1382
Email: plc.sales@de.abb.com
www.abb.com/plc
www.abb.com/drives
www.abb.com/automationbuilder

Note:
We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB AG does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB AG.

Copyright © 2015 ABB - All rights reserved