## Selection Table for Digital Silicon Irradiance Sensors

**Si-RS485 Series**

**with Optional External Sensors Tamb-Si, Tmodul-Si and Vwind-Si**

All measured parameters are transferred via one Modbus cable (except solution 6).

<table>
<thead>
<tr>
<th>Solution</th>
<th>Measured Parameters</th>
<th>Si Sensor Types</th>
<th>Accessories</th>
<th>Notes</th>
</tr>
</thead>
</table>
| 1        | 1. Solar Irradiance  
2. Temperature of Sensor Cell¹ | Si-RS485TC-T-MB | None | - Temperature of sensor cell |
| 2        | 1. Solar Irradiance  
2. Temperature of Sensor Cell¹ 
3. Module Temperature | Si-RS485TC-2T-MB | None | - Si sensor with firmly connected ambient cable temperature sensor (3 m connection cable)  
- Optional Shield Tamb-Si as a weather and radiation protection |
| 3        | 1. Solar Irradiance  
2. Temperature of Sensor Cell¹ 
3. Module Temperature | Si-RS485TC-Tm-MB | None | - Si sensor with firmly connected module temperature sensor (3 m connection cable)  
- Optional Shield Tamb-Si as a weather and radiation protection |
| 4        | 1. Solar Irradiance  
2. Temperature of Sensor Cell¹ 
3. Module Temperature  
4. Wind Speed | Si-RS485TC-2T-v-MB | Tamb-Si²  
Vwind-Si³ | - Si sensor with waterproof connectors for one temperature sensor and one wind speed sensor  
- External sensors with preconfigured plugs  
- Optional Shield Tamb-Si as a weather and radiation protection |
| 5        | 1. Solar Irradiance  
2. Temperature of Sensor Cell¹ 
3. Module Temperature  
4. Wind Speed | Si-RS485TC-2T-v-MB | Tmodul-Si²  
Vwind-Si³ | - Si sensor with waterproof connectors for one temperature sensor and one wind speed sensor  
- External sensors with preconfigured plugs |
| 6        | 1. Solar Irradiance  
2. Temperature of Sensor Cell¹ 
3. Module Temperature  
4. Wind Speed  
5. Ambient Temperature | Si-RS485TC-2T-v-MB | Tmodul-Si²  
Vwind-Si³ | - Si sensor with waterproof connectors for one temperature sensor and one wind speed sensor  
- External sensors with preconfigured plugs  
- Optional Shield Tamb-Si as a weather and radiation protection |

¹ The temperature of the sensor cell is within a comparable value to the PV module temperature. A quantification of the difference between the measurement of the temperature of the sensor and the possible PV module temperature is not possible.

² The temperature sensors Tamb-Si and Tmodul-Si have a 3 m connection cable.

³ The wind speed sensor Vwind-Si has a 5 m connection cable.

⁴ The ambient temperature sensor Ta-ext-RS485-MB is a separate Modbus sensor with its own Modbus cable.

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1. Ingenieurbüro Mencke & Tegtmeyer GmbH
2. Tel. +49-5151-403699-0  ●  Fax: +49-5151-403699-19  ●  www.ib-mut.de  ●  info@ib-mut.de
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