SGUE485

COMMUNICATION INTERFACE CONVERSION MODULE

USER MANUAL

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**Software Version**

<table>
<thead>
<tr>
<th>Date</th>
<th>Version</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017-02-27</td>
<td>1.0</td>
<td>Original Release</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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1 OVERVIEW

SGUE485 Communication Interface Conversion Module can convert the communication interface from USB (SmartGen special) to isolated standard RS485. The module integrated RS485 interface chip which enable it to connect to RS-485 network.

2 PRODUCT FEATURES

- RS485 network can connect to maximum 32 nodes;
- Isolation Voltage: reach up to DC1000V;
- 35mm DIN-Rail Mounting;
- Modular design with pluggable terminals, compact structure and easy to installation.

3 TECHNICAL PARAMETERS

<table>
<thead>
<tr>
<th>Item</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation Voltage</td>
<td>Controller USB port (5.0 V) continuous power supply</td>
</tr>
<tr>
<td>RS485 Port</td>
<td>Baud Rate: 9600bps</td>
</tr>
<tr>
<td></td>
<td>Stop Bit: 1bit</td>
</tr>
<tr>
<td></td>
<td>Parity Bit: none</td>
</tr>
<tr>
<td>Case Dimension</td>
<td>89.7<em>35.6</em>60.7mm(L<em>W</em>H)</td>
</tr>
<tr>
<td>Working Condition</td>
<td>Temperature: (-25~+70)°C  Relative Humidity: (20~93)%</td>
</tr>
<tr>
<td>Storage Condition</td>
<td>Temperature: (-25~+70)°C</td>
</tr>
<tr>
<td>Weight</td>
<td>0.072kg</td>
</tr>
</tbody>
</table>
### TERMINALS DESCRIPTION

![SGUE485 Panel](image)

<table>
<thead>
<tr>
<th>Terminal</th>
<th>Function</th>
<th>Cable Size</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>RS485 COM</td>
<td>0.5mm²</td>
<td>Communicate with host controller’s RS485 port, baud rate: 9600bps.</td>
</tr>
<tr>
<td>2.</td>
<td>B(−)</td>
<td></td>
<td>When communication is normal, RS485 indicator flashes.</td>
</tr>
<tr>
<td>3.</td>
<td>A(+)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>USB Communication and power supply</td>
<td>USB Type B</td>
<td>The USB port, communicate with controller, is used for power supply and data changing between module and controller. POWER indicator is normally light and USB indicator flashes.</td>
</tr>
</tbody>
</table>

5 TYPICAL APPLICATION

Single Unite Networking Connection:

RS485 BUS

Multi-controller Networking Connection:

RS 485 BUS

RS485 Communication Bus Connection:
Remark:

1) Please make sure USB indicator is under flash status before SGUE485 module communicates with controller; if not, SGUE485 is powered again.

2) Please set each controller's communication address (different from each other) before networking.

6 CASE DIAMENTSIONS AND INSTALLATION

![Diagrams showing case dimensions]