1. Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard by label of “DANGER”, “WARNING” or “CAUTION”, followed by important safety information which must be carefully followed. To ensure safety of personnel and equipment the safety instructions in this manual and the product catalogue must be observed, along with other relevant safety practices.

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANGER</td>
<td>In extreme conditions, there is a possible result of serious injury or loss of life.</td>
</tr>
<tr>
<td>WARNING</td>
<td>If instructions are not followed there is a possibility of serious injury or loss of life.</td>
</tr>
<tr>
<td>CAUTION</td>
<td>If instructions are not followed there is a possibility of injury or equipment damage.</td>
</tr>
</tbody>
</table>

**WARNING**

Do not disassemble, modify (including change of printed circuit boards) or repair this product. Injury or failure can result.

Do not operate the device with wet hands. There is a risk of electric shock.

Do not operate the product beyond the specification range. Do not use the product for flammable or harmful gases or liquids. Fire, malfunction, or damage to the product can result. Please confirm the specifications before use.

Do not operate the product in an environment where flammable or explosive gases may be present. Fire or an explosion can result.

The following instructions must be followed during maintenance:

- Turn off the power supply.
- Stop the air supply, exhaust the residual pressure and make sure that the air is released to atmosphere before performing maintenance. Otherwise injury can result.

Do not apply pressure to the LCD display. This may cause damage or injury.

The forced input/output function is used to change the signal status forcibly. When operating this function, be sure to check the safety of the surroundings and the installation. Otherwise injury or equipment damage could result.

Erroneous parameter setting can result in malfunction. Be sure to confirm the settings. Otherwise injury or equipment damage could result.

2. How to Order

Refer to the catalogue or operation manual for this product.

3. Specifications

Refer to the catalogue or operation manual for this product.

4. Outline dimensions(mm)

Refer to the catalogue or operation manual for this product.

5. Names / Functions of individual Parts

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LCD display</td>
<td>Displays the operation items and information about the unit.</td>
</tr>
<tr>
<td>2</td>
<td>Connector</td>
<td>Connector for Handheld Terminal cable.</td>
</tr>
<tr>
<td>3</td>
<td>Handheld Terminal cable</td>
<td>Cable to connect the SI Unit to the Handheld Terminal.</td>
</tr>
<tr>
<td>4</td>
<td>ENTER button ( )</td>
<td>In selecting screen, this button is used for selecting the required item. In setting screen, pressing this button registers the selected contents.</td>
</tr>
<tr>
<td>5</td>
<td>Cursor move button ( )</td>
<td>This button is used to move the cursor in LCD display upward/downward and right/left direction. Select the required item using this button. Use this button to increase/decrease or turn ON/OFF the setting value.</td>
</tr>
<tr>
<td>6</td>
<td>F2 button ( )</td>
<td>This button functions according to the indication or instruction displayed on the screen.</td>
</tr>
<tr>
<td>7</td>
<td>F1 button ( )</td>
<td>In selecting screen, this button is used to return to the previous screen. Pressing this button cancels the setting contents.</td>
</tr>
<tr>
<td>8</td>
<td>Escape button ( )</td>
<td>The Error LED (Red) turns ON when EX600 diagnostics error occurs. (Refer to the “Troubleshooting” and “Error Code” section for further details.)</td>
</tr>
<tr>
<td>9</td>
<td>Error LED</td>
<td>The Power LED (Green) turns ON when the Handheld Terminal is connected with an EX600 SI Unit and power supply for Control/Input is ON.</td>
</tr>
<tr>
<td>10</td>
<td>Power LED</td>
<td>The Power LED (Green) turns ON when the Handheld Terminal is connected with an EX600 SI Unit and power supply for Control/Input is ON.</td>
</tr>
</tbody>
</table>

6. Wiring

- When inserting the connector into the Handheld Terminal, insert the connector straight in until it clicks into place.

- Do not insert the connector without aligning the mark, the connector will not mate with the receptacle.

- If inserted without aligning the mark, the connector will not mate with the receptacle.

**<SPEEDCON Wiring method>**

1. Set the projected portion of the cable connector metal ring (plug / socket) to the mark at cable end.

2. Push the connector straight to insert it into the receptacle of the unit. If inserted without aligning the mark, the connector will not mate with the receptacle.
### 7. Setting (continued)

#### <Main Menu>

The Handheld Terminal has five modes for the various functions. Each mode is composed of layers with more detailed contents enabling setting and checking of each item.

<table>
<thead>
<tr>
<th>No.</th>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/0 Monitor mode</td>
<td>This mode displays the I/O status of the unit and carries out forced I/O.</td>
</tr>
<tr>
<td>2</td>
<td>I/O Monitor mode</td>
<td>This mode displays the I/O status of the unit and the detailed error contents and error log.</td>
</tr>
</tbody>
</table>
| 3   | System Configuration mode | This mode is used to configure the following system operations: 
1. Input the tag name of each unit.
2. Update the memorized information of manifold configuration.
3. Change the hold/clear function to SW setting of the SI unit or setting by the Handheld Terminal.
4. Clear the ON/OFF counter of each I/O Unit.
5. Reset the parameter of each unit to the factory default value.
6. Clear all error logs. |
| 4   | Parameter Setting mode | This mode is used to set each parameter type. |
| 5   | Terminal Setting mode | This mode is used to set the following: 
1. Set the contrast of the LCD display screen.
2. Set the brightness of the LCD display screen.
3. Set the click sound level for button operation.
4. Set the time before entering power saving mode when there is no operation.
5. Nona, 1 min, 3 min, 7 min, 10 min  
6. Change the password. |

### 8. Trouble Shooting

#### Investigation method

- Power LED is ON
  - Check 2) SWH LED is green.
  - Confirm the regulated power supply voltage is supplied to the endplate.
  - Supply voltage of the power supply for control / input refer to the manual of the corresponding unit.

- LCD display is not active
  - Handheld terminal is in power save mode.
  - Press ESC button. Confirm that the LCD is active.
  - Same as left.

- LCD is damaged.
  - LCD does not become active after initial checks above, LCD is damaged.
  - Stop operation and contact SMC sales office.

- Warning System access is not completed is displayed on the LCD screen
  - Confirm that the Handheld terminal cable is connected correctly.
  - Confirm that there is no loose connection in the Handheld terminal cable.
  - Reconnect the cable correctly. Ensure the cable connections are secure.

- Connection between the units is defective.
  - Confirm if unit information is in active state and manifold configuration is correct.
  - If LED is flashing red and green, there is a connection fault between the units.
  - Re-make and then confirm the connection between the units.

- Manifest configuration memory error has occurred.
  - Confirm if configuration memory is in active state and manifold configuration is correct.
  - If LED is flashing red and green, there is a connection fault between the units.
  - Re-make and then confirm the connection between the units.

- ERROR LED is ON
  - EX600 diagnostic error has occurred.
  - Confirm error content through diagnostic data mode.
  - Refer to error code list and respective unit's operation manual for counter measure to the error.

### 9. Contact

- **AUSTRIA** (43) 2262 62260  
  - NETHERLANDS (31) 20 531 8888
- **BELGIUM** (32) 2 355 1464  
  - NORWAY (47) 67 12 90 20
- **CECH REP.** (42) 541 434 611  
  - POLAND (46) 22 211 9600
- **DENMARK** (45) 7025 2900  
  - PORTUGAL (351) 21 471 1880
- **FINLAND** (358) 207 51513  
  - SLOVAKIA (421) 2 444 56725
- **FRANCE** (33) 1 6476 1000  
  - SLOVENIA (386) 73 865 412
- **GERMANY** (49) 6103 4200  
  - SWITZERLAND (41) 945 184 100
- **GREECE** (30) 210 271 7265  
  - SWEDEN (46) 6 603 1290
- **HUNGARY** (36) 23 511 390  
  - UNITED KINGDOM (44) 1908 563888
- **ITALY** (39) 0 827 111  

### SMC Corporation

Visit [http://www.smcworld.com](http://www.smcworld.com) (Global)  
[http://www.smceu.com](http://www.smceu.com) (Europe)

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