### Summary of Product parts

**Analogue input unit**

- EX600-AXA

**Analogue output unit**

- EX600-AYA

**Analogue I/O unit**

- EX600-AMB

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### Installation and Maintenance Manual

**Fieldbus system - Analogue unit**

**Type** EX600-AX / EX600-AY / EX600-AM

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### Safety Instructions (Continued)

- **Caution**: Indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.

- **Warning**: Indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.

- **Danger**: Indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

- **DANGER** indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

- **WARNING** indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.

- **CAUTION** indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.

### Installation & Maintenance Manual

- **Valve platemounting groove**

- **Fix the manifold by tightening supplies to adjacent units.**

- **Unit connector (Plug)**

- **Joint bracket (EX600-ZMA2)**

- **Marker groove**

- **Groove for an identification marker.**

- **Connector for signals and power supply**

- **Individual grounding should be provided close to the product with a short cable.**

- **DIN rail mounting groove**

- **End plate bracket (EX600-ZMA2)**

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### Wiring

- **Connect the M12 connector cable.**

- **EX600-AYA**

- **EX600-AXA**

- **Identification marker**

- **Mark A on the unit and insert the connector vertically.**

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### Warning

- **Do not disassemble, modify (including changing the printed circuit board) or repair.**

- **Do not operate the product outside of the specifications.**

- **Do not operate in an atmosphere containing flammable or explosive gases.**

- **Do not operate in an environment in which there is a danger of fire.**

- **Do not use for flammable or harmful fluids.**

- **Fire, malfunction, or damage to the product can result.**

- **Verify the specifications before use.**

- **Do not operate the product in an interlocking circuit.**

- **This product is not designed to be explosion proof.**

- **Do not disassemble, modify (including changing the printed circuit board) or repair.**

- **Do not use for flammable or harmful fluids.**

- **Fire, malfunction, or damage to the product can result.**

- **Verify the specifications before use.**

- **When assembling units, take care not to get any fingers caught between units. Injury can result.**

- **When disassembling units, take care to avoid excessive force.**

- **The connection parts of the units are firmly joined with seals and injury can result.**

- **After maintenance is complete, perform appropriate functional inspections.**

- **If they are not aligned, the connector cannot be connected correctly.**

- **Tighten the joint brackets to a torque of 1.5 to 1.6 Nm.**

- **Connect the SI unit to the valve manifold.**

- **If using the product in an interlocking circuit: DANGER indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.**

- **If using the product in an interlocking circuit: WARNING indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.**

- **CAUTION indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.**

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### Assembling the unit as a manifold

1. **Connect a unit to the end plate.**

2. **Add more I/O units.**

3. **Mount the valve plate.**

4. **Connect the SI unit.**

5. **Connect the SI unit to the valve manifold.**

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### Mounting and Installation (Continued)

- **DIN rail mounting (Not available for SY series valves. Refer to the SY catalogue.)**

- **MARK A on the unit.**

- **END PLATE BRACKET (EX600-ZMA2) to the end plate at the opposite end to the valves, using 2-M4x14 screws.**

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### Summary of Function

- **No.**

- **Description**

- **Function**

  1. Status display LED
  2. Connector (Analogue input)
  3. Connector (Analogue output)
  4. Marker groove
  5. Joint bracket
  6. Unit connector (Plug)

- **Displays the status of the unit.**

- **Connector for Analogue inputs.**

- **Connector for Analogue outputs.**

- **Groove for an identification marker.**

- **Bracket for joining adjacent units.**

- **Connector for signals and power supplies to adjacent units.**
LED Display

**Analogue input unit**

<table>
<thead>
<tr>
<th>Display</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>The power supply for control and input is OFF.</td>
</tr>
<tr>
<td>Green LED is ON.</td>
<td>The product is operating normally.</td>
</tr>
<tr>
<td>Red LED is ON.</td>
<td>The input device has a short circuit.</td>
</tr>
</tbody>
</table>

**Analogue output unit**

<table>
<thead>
<tr>
<th>Display</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>The power supply for control and input is OFF.</td>
</tr>
<tr>
<td>Green LED is ON.</td>
<td>The product is operating normally.</td>
</tr>
<tr>
<td>Red LED is ON.</td>
<td>The output device has a short circuit.</td>
</tr>
</tbody>
</table>

**Analog I/O unit**

<table>
<thead>
<tr>
<th>Display</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>The power supply for control and input is OFF.</td>
</tr>
<tr>
<td>Green LED is ON.</td>
<td>The product is operating normally.</td>
</tr>
<tr>
<td>Red LED is flashing.</td>
<td>The upper or lower limit of the range is exceeded.</td>
</tr>
</tbody>
</table>

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>EX600-AXA</th>
<th>EX600-AYA</th>
<th>EX600-AMBI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>Control and input</td>
<td>24 V DC, Class II, 2 A</td>
<td>-</td>
</tr>
<tr>
<td>Output</td>
<td>-</td>
<td>24 V DC, Class II, 2 A</td>
<td>-</td>
</tr>
<tr>
<td>Input signal range</td>
<td>-</td>
<td>-10 V to 10 V</td>
<td>-10 to 20 mA to 20 mA</td>
</tr>
<tr>
<td>Output signal range</td>
<td>-</td>
<td>0 V to 10 V</td>
<td>0 mA to 20 mA</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>Max. surrounding air temperature rating</td>
<td>-50 °C to -10 °C</td>
<td>57 Hz</td>
</tr>
<tr>
<td>Storage temperature range</td>
<td>-20 °C to -50 °C</td>
<td>-20 °C to -50 °C</td>
<td>-20 °C to -50 °C</td>
</tr>
</tbody>
</table>

**Outline with Dimensions**

Refer to the product catalogue or SMC website (URL: http://www.smcworld.com) to obtain more detailed information about outline dimensions.

**Maintenance**

- Maintenance should be performed according to the Safety Instructions.
- Perform regular maintenance and inspections. There is a risk of unexpected malfunction.
- Do not use solvents such as benzene, thinner etc. to clean each unit. They could damage the surface of the body and erase the markings on the body.
- Use a soft cloth to remove stains. For heavy stains, use a cloth soaked with diluted neutral detergent and fully squeezed, then wipe up the stains again with a dry cloth.

**Troubleshooting**

Refer to the LED Display. Refer to the SMC website (URL: http://www.smcworld.com) to obtain more detailed information about troubleshooting.

**Contact Information**

<table>
<thead>
<tr>
<th>Country</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUSTRIA</td>
<td>(43) 2625 02280</td>
</tr>
<tr>
<td>BELGIUM</td>
<td>(32) 3 335 1444</td>
</tr>
<tr>
<td>CZECH REP.</td>
<td>(42) 541 425 611</td>
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<tr>
<td>DENMARK</td>
<td>(45) 7035 2930</td>
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<td>FRANCE</td>
<td>(33) 1 6476 1000</td>
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<td>GERMANY</td>
<td>(49) 6 103 4003</td>
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<td>GREECE</td>
<td>(30) 219 271 7265</td>
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<td>HUNGARY</td>
<td>(36) 215 111 390</td>
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<td>IRELAND</td>
<td>(351) 1 403 9000</td>
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<td>ITALY</td>
<td>(30) 02 92711</td>
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<td>NETHERLANDS</td>
<td>(31) 20 531 8888</td>
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<tr>
<td>NORWAY</td>
<td>(47) 67 12 9500</td>
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<td>(351) 21 471 1880</td>
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<td>SWEDEN</td>
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<tr>
<td>SWITZERLAND</td>
<td>(41) 52 395 3131</td>
</tr>
<tr>
<td>UNITED KINGDOM</td>
<td>(44) 1 125 6630888</td>
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</tbody>
</table>

**SMC Corporation**

URL: http://www.smcworld.com (Global) http://www.smcworld.com (Europe)

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