Connect the power supply and the display/output device according to the safety regulations for electrical equipment.

- Risk of injury, damage to or destruction of the controller and/or the sensor.
- Avoid shocks and impacts to the sensor and controller.
- Damage to or destruction of the controller and/or the sensor.
- The supply voltage must not exceed the specified limits.
- Damage to or destruction of the controller and/or the sensor.
- Protect the sensor cable against damage.
- Destruction of the sensor, failure of the measuring device.

**Notes on CE Marking**

The following apply to the induSENSOR MSC7602:


The sensor satisfies the requirements if the guidelines in the operating instructions are maintained in operation and installation.

**Proper Environment**

- Temperature range: -25 ... +60 °C (32 ... +140 °F)
- Vibration/Shock: EN 60068-2-6, EN 60068-2-27
- Ambient pressure: Atmospheric pressure
- Humidity: 5 - 95 % (non-condensing)

**Supply, Sensor and Signal Output**

The MSC7602 is designed for multi-channel operation. Therefore, power supply and RS485 must be supplied only to one controller and can then be transmitted to the adjacent controller via a DIN rail bus connector on the rear of the bus.

**Alarm signal** is only available on the DIN rail bus connector and executed in series, i.e., it is not daisy-chained in the bus connector.

The prerequisites for sync operation are described in the operating instructions, chapter A3.

**Power Supply, Sensor and Signal Output**

- Temperature range:
  - Storage: -40 ... +85 °C (-40 ... +185 °F)
  - Operation: -40 ... +85 °C (-40 ... +185 °F)
- Humidity: 5 - 95 % (non-condensing)
- Ambient pressure: Atmospheric pressure
- Protection class: IP 20
- Vibration/Shock: EN 60068-2

**Installation**

If required, install a DIN rail bus connector, e.g., ME22,5 1,5/4P15 KMKG (Phoenix: 2201739), onto the DIN rail.

If required, connect the mating plug, e.g., MCVR 1,5/ST-3,81 (Phoenix: 1827106), with the bus connector.

Position the MSC7602 controller on the DIN rail and press it down until it snaps in.

**Display**

The display requires the control and display elements to be set using buttons, LEDs or a software (see operating instructions).

**Address Assignment**

The address can be set using the sensorTOOL, see operating instructions, chapter A3.

**Control and Display Elements**

- **Button/LED**
  - **Function**: Enter the menu level
  - **Description**: -

**Synchronization**

- **Switch setting**
  - **Operation**: 1) Factory settings
  - **Switch setting**: 0 = OFF, 1 = ON

**Address Assignment**

The address can be set using the sensorTOOL, see operating instructions, chapter A3.

**Synchronization**

The address can be set using the sensorTOOL, see operating instructions, chapter A3.
### Menu Structure for the MSC7602 Controller

#### Adjustment Mode: 2-point Adjustment

<table>
<thead>
<tr>
<th>D1: Channel</th>
<th>D2: E1</th>
<th>D3: E2</th>
<th>D4: Value</th>
<th>Next menu</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adjustment</td>
<td>2-point adjustment</td>
<td>Go to the adjustment modes 2-point adjustment, see Fig. 8 or zero-point search, see Fig. 9.</td>
<td>ENTER</td>
<td>E1 level</td>
</tr>
</tbody>
</table>

**Legend of the Menu Structure**
- LED orange
- LED orange flashing
- LED red
- LED red flashing
- LED green
- LED off
- SMR Start of measuring range
- MMR Mid of measuring range
- EMR End of measuring range

---

#### Adjustment Mode: Zero-point Search

<table>
<thead>
<tr>
<th>D1: Channel</th>
<th>D2: E1</th>
<th>D3: E2</th>
<th>D4: Value</th>
<th>Next menu</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic sensor recognition</td>
<td>Successful</td>
<td>Successful</td>
<td>E1 level</td>
<td></td>
</tr>
</tbody>
</table>

**Legend of the Menu Structure**
- LED orange
- LED orange flashing
- LED red
- LED red flashing
- LED green
- LED off
- SMR Start of measuring range
- MMR Mid of measuring range
- EMR End of measuring range

---

1) Position X2 must be > 10% of the measuring range away from X1.