IR202-D
Infrared Gas Analyzer
(Type: 19 inch rack mounting D-Sub terminal type)

Maintenance space

When IR202 is embedded in a panel or in a rack, clear the space of 10 cm on top of each analyzer to expel the radiant heat.
When some analyzers are installed in several racks in a unit, clear the space on top of each analyzer.

Unless otherwise specified, differences in the dimensions are specified as: General tolerance = ±(Criteria of tolerance class IT18 in JIS B0401-1998)/2.
External Connection Diagram

Connector for external input (AI) Connector for analog output (AO) (for O2 input)

![Diagram of AI and AO connections]

RS-485 Connector

![Diagram of RS-485 connections]

Connector for digital input/output (DIO1, DIO2, DIO3)

![Diagram of DIO connections]

(Note) Display Ch number is same as the AO number under standard specifications. Do not use connectors in blank.

Digital input
OFF : 0 V
ON : 12 to 24 V DC

Digital output max. contact load rating
24 V DC/1A

(Note) DIO1, DIO2, DIO3 have the same internal circuit of the connector. Do not use pins in blank.
### Contents of digital input signal

<table>
<thead>
<tr>
<th>DI1</th>
<th>DI2</th>
<th>DI3</th>
<th>DI4</th>
<th>DI5</th>
<th>DI6</th>
<th>DI7</th>
<th>DI8</th>
<th>DI9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote hold</td>
<td>Average value reset</td>
<td>Auto calibration start</td>
<td>Auto zero calibration start</td>
<td>Remote range 1</td>
<td>Remote range 2</td>
<td>Remote range 3</td>
<td>Remote range 4</td>
<td>Remote range 5</td>
</tr>
</tbody>
</table>

### Contents of digital output signal

<table>
<thead>
<tr>
<th>DO1</th>
<th>DO2</th>
<th>DO3</th>
<th>DO4</th>
<th>DO5</th>
<th>DO6</th>
<th>DO7</th>
<th>DO8</th>
<th>DO9</th>
<th>DO10</th>
<th>DO11</th>
<th>DO12</th>
<th>DO13</th>
<th>DO14</th>
<th>DO15</th>
</tr>
</thead>
<tbody>
<tr>
<td>instrument error</td>
<td>calibration error</td>
<td>(auto calibration status)</td>
<td>(zero)</td>
<td>(For span gas Ch1 )</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>Range identification Ch1</td>
<td>Range identification Ch2</td>
<td>(Alarm 1)</td>
<td>(Alarm 2)</td>
<td>(Alarm 3)</td>
<td>(Alarm 4)</td>
<td>(Alarm 5)</td>
</tr>
<tr>
<td>instrument error</td>
<td>calibration error</td>
<td>(auto calibration status)</td>
<td>(zero)</td>
<td>(For span gas Ch1)</td>
<td>(For span gas Ch2)</td>
<td>(For span gas Ch3)</td>
<td>Range identification Ch1</td>
<td>Range identification Ch2</td>
<td>Range identification Ch3</td>
<td>(Alarm 1)</td>
<td>(Alarm 2)</td>
<td>(Alarm 3)</td>
<td>(Alarm 4)</td>
<td>Range identification Ch3</td>
</tr>
<tr>
<td>instrument error</td>
<td>calibration error</td>
<td>(auto calibration status)</td>
<td>(zero)</td>
<td>(For span gas Ch1)</td>
<td>(For span gas Ch2)</td>
<td>(For span gas Ch3)</td>
<td>Range identification Ch1</td>
<td>Range identification Ch2</td>
<td>Range identification Ch3</td>
<td>(Alarm 1)</td>
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<td>(Alarm 3)</td>
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<td>(Alarm 3)</td>
<td>(Alarm 4)</td>
<td>Range identification Ch3</td>
</tr>
</tbody>
</table>

Note: The normal open side (NO) of digital output is close when the function is active without range ID. In case of range ID, normal open (NO) side is close with L-range. The normal close (NC) side is close with H-range.