Drawings

IR202-C
Infrared Gas Analyzer
(Type: Low-concentration 19inch rack mounting type)

Unit: mm

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 (A/O) (for O2 input)

RS-485 Connector

D-sub 25pin Male

D-sub 9pin Female

1. AO1+
2. AO1-
3. AO2+
4. AO2-
5. AO3+
6. AO3-
7. AO4+
8. AO4-
9. AO5+
10. AO5-
11. AO6+
12. AO6-
13. AO7+
14. AO7-
15. AO8+
16. AO8-
17. AO9+
18. AO9-
19. AO10+
20. AO10-
21. AO11+
22. AO11-
23. AO12+
24. AO12-
25. (GND)

1. RTxD+
2. RTxD-
3. (Note) Display Ch number is same as the AO number under standard specifications.
Do not use connectors in blank.

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

D-sub 25pin Female

1. DIO1 Connector
2. DIO2 Connector
3. DIO3 Connector

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

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

Digital output max. contact load rating
24 V DC/1A
## 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></th>
<th>1-compo.analyzer</th>
<th>2-compo.analyzer</th>
<th>3-compo.analyzer</th>
<th>4-compo.analyzer</th>
</tr>
</thead>
<tbody>
<tr>
<td>DO1</td>
<td>instrument error</td>
<td>instrument error</td>
<td>instrument error</td>
<td>instrument error</td>
</tr>
<tr>
<td>DO2</td>
<td>calibration error</td>
<td>calibration error</td>
<td>calibration error</td>
<td>calibration error</td>
</tr>
<tr>
<td>DO3</td>
<td>(auto calibration status)</td>
<td>(auto calibration status)</td>
<td>(auto calibration status)</td>
<td>(auto calibration status)</td>
</tr>
<tr>
<td>DO4</td>
<td>(zero)</td>
<td>(zero)</td>
<td>(zero)</td>
<td>(zero)</td>
</tr>
<tr>
<td>DO5</td>
<td>(For span gas Ch1)</td>
<td>(For span gas Ch1)</td>
<td>(For span gas Ch1)</td>
<td>(For span gas Ch1)</td>
</tr>
<tr>
<td>DO6</td>
<td>—</td>
<td>(For span gas Ch2)</td>
<td>(For span gas Ch2)</td>
<td>(For span gas Ch2)</td>
</tr>
<tr>
<td>DO7</td>
<td>—</td>
<td>—</td>
<td>(For span gas Ch3)</td>
<td>(For span gas Ch3)</td>
</tr>
<tr>
<td>DO8</td>
<td>—</td>
<td>—</td>
<td>Range identification Ch1</td>
<td>Range identification Ch1</td>
</tr>
<tr>
<td>DO9</td>
<td>—</td>
<td>—</td>
<td>Range identification Ch2</td>
<td>Range identification Ch2</td>
</tr>
<tr>
<td>DO10</td>
<td>Range identification Ch1</td>
<td>Range identification Ch2</td>
<td>Range identification Ch3</td>
<td>Range identification Ch4</td>
</tr>
<tr>
<td>DO11</td>
<td>(Alarm 1)</td>
<td>(Alarm 1)</td>
<td>(Alarm 1)</td>
<td>(Alarm 1)</td>
</tr>
<tr>
<td>DO12</td>
<td>(Alarm 2)</td>
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<td>DO14</td>
<td>(Alarm 4)</td>
<td>(Alarm 4)</td>
<td>(Alarm 4)</td>
<td>Range identification Ch3</td>
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<tr>
<td>DO15</td>
<td>(Alarm 5)</td>
<td>(Alarm 5)</td>
<td>(Alarm 5)</td>
<td>Range identification Ch4</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.