The RT-VWSB is a robust switching box used to group multiple sensors in a single location providing a convenient mean of taking readings.

**Description**

The RT-VWSB consists of a fiberglass enclosure containing terminal blocks, rotary switches, cable input connectors and sockets for portable readout connection.

The switching box can handle up to twenty 4-conductor sensors, and allows lightning protection to be added for each of these conductors.

The RT-VWSB may be fitted with an RT-MUX multiplexer for use with a SENSLOG 1000X data acquisition system. This option is available in 8- or 16-channel versions only. Please refer to the SENSLOG 1000X brochure for more information about the RT-MUX. Connection to another type of data acquisition system — not requiring the RTX-MUX — is also possible through a 40-pin adapter cable (available upon request).

**Key Features**

- Rugged and splashproof
- Up to 20 channels, 4 conductors
- Non-corrosive fiberglass enclosure
- Stainless steel & metallic enclosures available
- Lightning protection available
- Multiplexer available

**Applications**

- Group multiple sensors in a single location

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### Specifications

**ENCLOSURE**  
12 × 8 in. NEMA 4X gray fiberglass

**ROTARY SWITCH**  
- **Manual switching**: Contact resistance: 50 MΩ max.  
  Insulation resistance: 1000 MΩ min.
- **Automatic switching** (with RTX-MUXoption): Two 0.5 V ports required (CLK, RST) \(^{(1)}\)  
  Four 0.5 V ports required (2 CLK, RST) \(^{(2)}\)

**DIMENSIONS**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>292 mm</td>
<td>302 mm</td>
<td>133 mm</td>
<td>203 mm</td>
<td>355 mm</td>
<td>6.35 mm (diameter)</td>
</tr>
</tbody>
</table>

Contact resistance: 50 MΩ max.  
Insulation resistance: 1000 MΩ min.

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### Ordering Information

**MODEL RT-VWSB XX-A-B-C-D-E**

XX  
- Number of positions  
  - 08: 8 positions (for RTX-248 multiplexers only)  
  - 16: 16 positions (for RTX-248 multiplexers only)  
  - 10: 10 positions  
  - 20: 20 positions

A  
- Enclosure  
  - 0: Fiberglass enclosure  
  - A: Steel (10 and 20 positions only)  
  - B: Stainless steel (10 and 20 positions only)

B  
- Lightning protection  
  - 0: No protection (standard)  
  - A: Gas tube (10 and 20 positions only)  
  - B: Gas tube and diode

C  
- RTX-248 multiplexer  
  - 0: No RTX-248 (standard)  
  - A: RTX-248A (16 positions only) \(^{(1)}\)  
  - C: RTX-248C (16 positions only – 2 separately addressable RTX-248F) \(^{(2)}\)  
  - F: RTX-248F (8 positions only) \(^{(1)}\)

D  
- Cable input connector  
  - 0: No connector (standard)  
  - A: 50 mm (2 in.) conduit connector  
  - B: 10 plastic watertight connectors (fiberglass enclosure only)  
  - C: 20 plastic watertight connectors (fiberglass enclosure only)  
  - D: 8 plastic watertight connectors (fiberglass enclosure only)  
  - E: 16 plastic watertight connectors (fiberglass enclosure only)  
  - F: 10 zinc-plated steel watertight connectors  
  - G: 20 T&B (metallic box only)

E  
- Front panel connector  
  - 0: 4 female pins (standard)  
  - A: 4 female pins plus 6-pin Cannon connector (adapted jumper cable required)

Other configuration available upon request