Thank you for purchasing FrSky Smart Port Mini Lipo Voltage Sensor—MLVSS. It is lighter weight and physically smaller without the OLED screen, compatible with FrSky Smart Port enabled system, and can measure total voltage and cell voltages as connected. In order to fully enjoy the benefit of it, please read the instruction manual carefully and set up the device as described below.

1. Specifications

- **Battery Port**: Connect to the LiPo battery
- **Smart Port**: To the S.Port of the other FrSky Sensors / Receivers
- **LED**

Dimension: 43×19×8mm  
Weight: 2.8g  
Measurement range: 2S~6S (6~25V)  
Power consumption: 10mA@5V  
Voltage detection precision: 0.05V  
Operating temperature: -10~70°C  
Compatibility: FrSky Smart Port enabled receivers, such as X8R, X6R, X4R, etc.

2. Set Up

This FrSky Smart Port Mini Lipo Voltage Sensor—MLVSS, is only compatible with FrSky Smart Port enabled receivers, such as X8R, X6R, X4R, XSR etc. Here we take the setup together with X8R receiver for example. For more details, please refer to corresponding receiver instruction manual.

![Smart Port Setup Diagram]

Install FrSky Smart Port Mini Lipo Voltage Sensor on any appropriate surface of the airframe that stays away from water, vibration, or fuel.

All FrSky Smart Port enabled sensors could daisy chain with each other through their Smart Port.

3. ID Set Up

Each type of FrSky Smart Port enabled sensor has its unique physical ID. The default physical ID for this sensor is 02. The ID number could be changed by FrSky Servo Channel Changer. Please refer to the instruction manual of FrSky Servo Channel Changer for details.
### 4. LED Status

<table>
<thead>
<tr>
<th>LED Status</th>
<th>Smart port Connection</th>
<th>Battery Port Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash very quickly (100ms)</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>Flash quickly (200ms)</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>Flash quickly (200ms)</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Flash slowly (500ms)</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

Notice: FrSky Smart Port Mini Lipo Voltage Sensor can measure from 2S to 6S. Combine two FrSky Smart Port Mini Lipo Voltage Sensors to measure more than 6S is not supported.