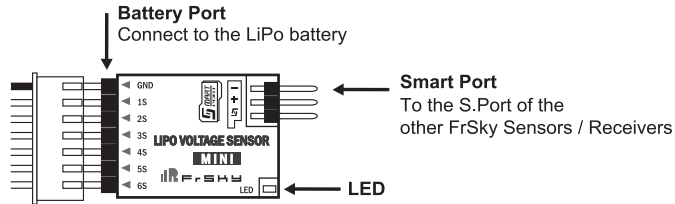NOTICE: All instructions, warranties and other collateral documents are subject to change at the sole discretion of FrSky Electronic Co., Ltd. For further information, please visit www.frsky-rc.com and click the SUPPORT tab for this product.

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
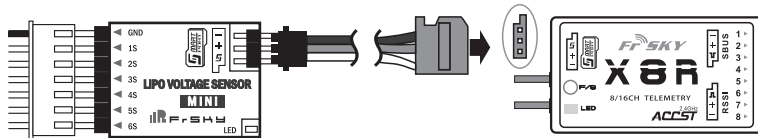Voltage detection precision: 0.05V
Operating temperature: -10~70℃
Compatibility: FrSky Smart Port enabled receivers, such as X8R, X6R, X4R, etc.

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.

WARNING: DO NOT reverse connect the balancer of the Lipo battery to the MLVSS, otherwise all devices daisy chained with the MLVSS will be damaged. Refer to the diagram above for correct connection.

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

LED Status	Smart port Connection	Battery Port Connection
Flash very quickly (100ms)	NO	NO
Flash quickly (200ms)	NO	YES
Flash quickly (200ms)	YES	NO
Flash slowly (500ms)	YES	YES

Notice: FrSky Smart Port Mini Lipo Voltage Sensor can meansure from 2S to 6S. DO NOT combine two FrSky Smart Port Mini Voltage Sensors to detect more than 6S, otherwise device will be damaged.