

## Solid-Sky-2Pro

Solid-Sky is a multipurpose device with great radio range. It is developed to industrial conditions and fits well to long-range applications.

Solid-Sky has durable battery package but in addition can be used with external power. It is easy to install and implement. Solid-Sky can intermittently supply power to two external two-wire 4-20 mA transmitters even when running only on battery power.

Solid-Sky uses Semtech LoRa technology which enables very long-range radio coverage in wireless battery-operated device.

Solid-Sky-2Pro version has two inputs (mA/V). For more input possibilities see Solid-Sky-2Pro-DIO-RS485.



### Applications



Industry



Buildings and Environment

### Product highlights and features

Power supply to external 2-wire 4-20mA transmitter

2 mA/V input channels

Long radio range

# Solid-Sky-2Pro



## General Specifications

<b>Enclosure</b>	Light grey polycarbonate plastic
<b>Environmental Protection</b>	IP65
<b>Weight</b>	~850 g, including batteries
<b>External Dimensions</b>	130 mm x 180 mm x 75 mm (WHD), without the pole mounting kit
<b>Rated Operating Conditions</b>	-40...+60°C, 0...100 %RH
<b>Allowed Storage Conditions</b>	-40...+60°C, non-condensing
<b>Internal Battery Type</b>	4 x LR14 (C size 1.5 V alkaline)
<b>Measuring Interval</b>	Adjustable 5...7200 seconds, default setting 1800 seconds (30 minutes)
<b>Inputs</b>	2 process inputs (mA/V)
<b>Data Transfer Options</b>	Send each data once (default) / two times / three times Bidirectional: acknowledgements and retransmits Buffering: 400 packet data buffer

## Radio Specifications

<b>Modulation</b>	LoRa
<b>Protocol</b>	Nokeval Sky, not LoRaWAN compatible
<b>Antenna</b>	Internal
<b>Center Frequency</b>	433.05 - 434.79 MHz, 7 predefined channels, fine tuning also possible
<b>Bandwidth</b>	max 300 kHz OBW
<b>Transmission Power</b>	max 10 mW E.R.P., software adjustable in 1 dB steps
<b>Transmission Range</b>	Line-of-sight range up to 10 km with maximal settings

## Internal Temperature Measurement

<b>Range</b>	-40...+60°C
<b>Accuracy (at 25°C)</b>	±0.5°C typical

## mA Inputs

<b>Range</b>	0...+21.0 mA or more
<b>Load</b>	50...80 Ohm
<b>Overcurrent Protection</b>	PTC fuse, max 30 V
<b>Excitation</b>	Low setting: 11.5...14 VDC, High setting: 17.5...20 VDC
<b>Accuracy (at 25°C)</b>	±0.008 mA
<b>Thermal Drift</b>	±60 ppm/°C
<b>Sensor supply</b>	Can intermittently supply power to 2 external two-wire 4-20 mA transmitters even when running on battery power only

# Solid-Sky-2Pro



## V Inputs

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Range	0...11 VDC
Load	110 kOhm
Accuracy (at 25°C)	±0.005 V
Thermal Drift	±60 ppm/°C

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## External Power Supply

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Input Voltage	11...30 VDC
Power Consumption	~100 mA maximum, few mA typical

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