## LPWAN SDI-12/ModBus Cloud Logger

## PRODUCT DESCRIPTION

The LPWAN SDI-12/ModBus Cloud Logger has been designed as multipurpose device for projects covering area of smart agriculture. The device is equipped with SDI-12 and RTU ModBus interfaces which are mostly present on various agricultural probes. With single device and universal FW, user can cover many different demands for measuring various combination of values on the field. There is up to 8 physical connectors slots for SDI-12 and ModBus probes which allows to achieve indeed very comprehensive combinations of important data collection. The device is dedicated to NBIoT network and is capable to send relatively large amount of data within one message –up to 400B. LoRaWAN version is available too, however the performance of entire device is limited by the network capability and maximum 36 bytes can be transferred over single message.

## **MAIN FEATURES**

- SDI-12 interface
- RTU ModBus interface
- Selectable probe voltage: 5V, 9V, 12V
- IP68 protection
- Goretex pressure balancer
- Simple configuration over UART or downlink
- Battery operated 17000mAh battery
- 2 selectable form factors
- Optional external probe power
- Continuous or switching power possible

## **USAGE**

- Smart agricultural
- General interface for SDI-12 and RTU ModBus devices



VLASTNOSTI	PARAMETRY
Protection	IP68 Wagobox or IP67 CamdenBoss box
Power supply	1 x LS33600 17Ah or 2 x ER14500 total 5.2Ah
Power consumption	<8uA in deep sleep mode, up to 200mA in transmission
Battery lifetime	From 1 year to 5 years, depends on number of connected probes and their power demands
Supported LPWAN standards	NBIoT in PSM mode or LoRaWAN class A, one of the type selectable upon order
Dimensions standard/radiation shield	Wagobox: 122 x 85mm, CamdenBoss:138 x 185 x 85 mm
Wagobox weight incl. battery	360g
CamdenBoss wight incl. 12V accu/12Ah	1200g
Interfaces	SDI-12 (M! and C! commands supported)     RTU ModBus
Inputs	<ul> <li>Multi hole metal glands – default 2 x 3 holes glands – other configuration possible upon request</li> <li>Goretex pressure balancer against condensation</li> </ul>
Antenna	SMA connector omni, gain 2.5dBi or external with various gain

