



TBS12E LoRa WAN to SDI-12 Bridge

TBS12E

The TBS12E is one of the available variants of the TBS12 LoRa WAN to SDI-12 Adaptor. It allows a range of SDI-12 compatible sensors to be connected to a LoRa WAN network.

LoRa Connectivity

LoRa WAN networks are being rolled out in both open (public) and closed (private) formats and offer an alternative to traditional cellular or mobile phone based telemetry systems. Whilst cellular systems are designed to cope with the high data rates demanded by applications such as video streaming, LoRa WAN has been designed with low data rates and minimal power consumption in mind. Making it the ideal choice for environmental monitoring.

Why SDI-12

Whilst many vendors are offering integrated LoRaWAN sensors, this approach neglects the wealth of knowledge and investment in existing sensors. And in the environmental and agriculture markets, the dominant sensor protocol is SDI-12. SDI-12 is simple to implement, flexible and robust. All commands and responses are sent in plain text, making configuration and debugging a breeze. SDI-12 flexible addressing scheme means it is also easy to connect multiple sensors to the one device.



TBS12E

The TBS12E is built around a powder coated aluminium enclosure. Power comes from a set of 3 off C sized alkaline batteries - that gives you economical, long term operation. A breather vent on the case prevents moisture build up. The LoRaWAN antenna fits on to a TNC socket on the top of the enclosure and the sensors connect via a waterproof connector on the base.

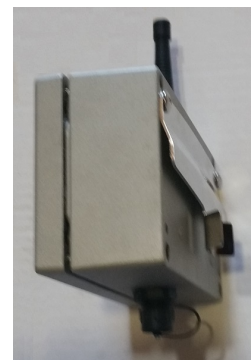
To configure the TBS12E, simply load Tekbox's TBS12 GUI program. This program gives you access to all of the LoRaWAN parameters including connection type, security keys, device ID and transmission rate. On the SDI-12 side you can add the SDI-12 address and commands for each of the connected sensors. Diagnostic information can be sent with every reading or at a lower rate.

For trouble shooting, the GUI allows you to send commands direct to either the LoRaWAN modem or the SDI-12 sensors. The former is useful if you wish to quickly change any of the LoRaWAN parameters or manually establish a communications session. The latter allows you to configure and test the attached SDI-12 sensors.

Should you require more features than can be provided in the TBS12, then you should consider the TBSL1.

Ordering Details

TBS12E	TBS12 LoRaWAN interface for SDI-12 sensors
TBSL1	TBSL1 Universal LoRaWAN to SDI-12 Bridge



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Telemetry Over Internet Protocol