

railpower box mini

The full-package solution
for energy data collection



The energy metering system for the railway of the future

***Evaluate energy and
position data simple,
quick and reliable.***

The railpower box mini is the digital interface for your energy data collection and billing. It records the effective energy, reactive energy and the position of the traction unit and transmits it to the ground station (DCS). The billing-relevant data is determined every five minutes. In addition, the railpower box mini can also output energy and position data of smaller grids (≥ 10 sec) as a second load profile. These data are not billing-relevant and can be used, for example, to evaluate energy efficiency.

Compatible with other systems

Via an additional data interface (LAN), the railpower box mini can communicate with other assistance systems (e.g. Driver Advisory System DAS). With the master-slave function, two boxes on the vehicle can be connected to each other, whereby only the master box requires a connection to the roof antenna. This allows two separate reference points to be measured – with little effort for retrofitting.



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The railpower box mini

- 2 load profiles available in parallel for energy billing and energy efficiency
- Data collection to the second
- Compatible with assistance systems
- Compact, space-saving design
- Simple installation in traction units



Internationally applicable

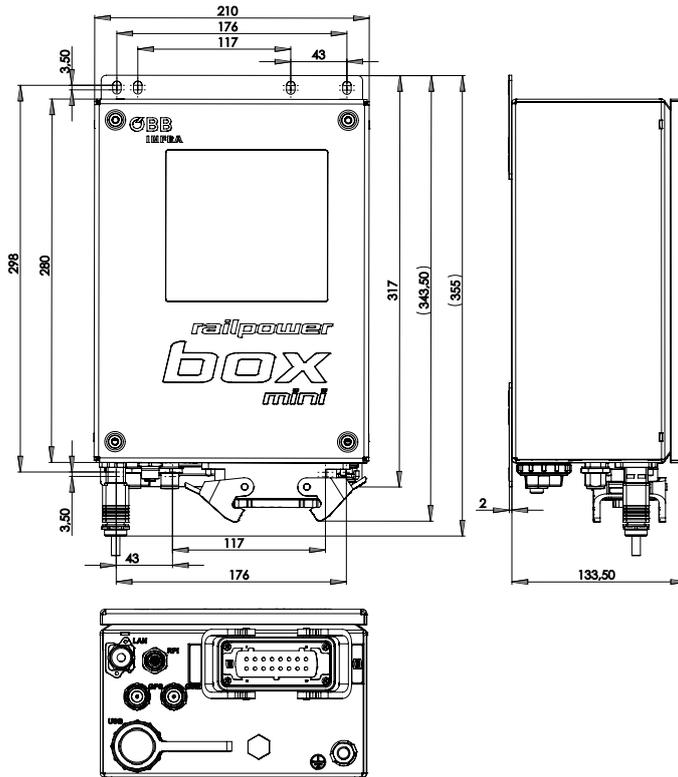
- Developed according to international specifications EN50463, TSI ENE, TSI LOC & PAS
- Approved in Europe by a Notified Body
- International data exchange in Europe via UTILTS or other format

Your advantage

- Comprehensive service: engineering, approval and first installation
- Access to international services
- International data exchange

Individual solutions

In the standard version, the data processing system and the energy measuring function are integrated in a protected aluminium housing. An optional radio module (Zigbee, Bluetooth or W-LAN) can be added via a USB interface. The radio module can be used to transfer data within the vehicle.



Supply voltage	24–110 V
Typical power consumption	20 W (max.)
Dimensions (LxWxH)	210 mm x 280 mm x 133,5 mm
Weight	5.3 kg
Ports	Antenna: GSM and GPS Harting “HAN 16 ES-M” connector for power supply plus measurement inputs LAN: USB
Protection class	IP 65 with selected connector types or protective cover
GPS	Accuracy 2,5 m CEP, 1 Hz measuring interval
Modem	LTE/UMTS/GSM
Material housing	Aluminium
Energy meter	Load profil for settlement: 5 min. Load profile for energy savings: ≤ 10 sec Supported energy meters: LEM EM4TII

The railpower box mini is sold exclusively via ÖBB-Infrastruktur AG.

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