Smartmaster Pro

Technical datasheet

1 LAN Connector

2 2x USB connections

3 Power Supply 12-24V DC

4 Din rail clips

Main technical caracteristics

Caracteristic	Value
Device	BCM2837B0 quad-core ARM Cortex-A53.
Server communication	VPN connection automatically established by the device.
Physical Communication	2 x USB A (total current consumption from both sockets max. 900 mA 1 x RJ45 10/100 Ethernet 1 x Micro-USB (solely for image transfer to eMMC) 1 x Micro HDMI 2 x Bridge for system bus
Software-level Communication	OCPP 1.X Modbus TCP REST API Multiple transactional platforms API Possibility of adding Websockets of MQTT
Solution templates	Charging point, Energy measurments, heatpumps batteries, inverters, chargers,...
Power Supply	12-24 VDC - 15%/ + 20%, reverse polarity protected
Power Consumption	10W (incl. 900 mA total USB load).
Mechanical support	DIN Rail EN 50022.
Dimensions	H 96 x W 22.5 x D 110.5 mm

Smartmaster Pro

Technical datasheet

Integrating Energy Management with Market Access and Streamlined Control

SmartMaster Pro is an advanced energy management system, expertly crafted for seamless integration with a wide range of energy systems. This robust, industrial grade, user-friendly platform not only monitors and controls energy usage for superior efficiency but also offers a multitude of energy services, including one-click access to the energy flex market. Compatible with various hardware brands, it supports multiple assets and platform protocols, facilitating easy integration with electric vehicle charging stations and other energy assets.

Installation is straightforward and requires minimal specialized knowledge, making it a flexible and scalable solution for diverse energy management needs. Ideal for a range of industries, SmartMaster Pro ensures operational tranquility and sustainable excellence, while providing comprehensive energy services for today's dynamic market.

Architecture overview

Transactional services like
Fleet management, flex activation
mobility platforms, energy pooling

1 External platforms

Multiple
certified
API's

Monitoring,
Configuration,
Dashboards,
Advanced
optimization,
Data transmission,
Energy services
activation and tuning

SaaS

2 Smartmaster Pro
platform

Automatic VPN
MQTT & APIs

Local control
& communication

3 On site integration

LAN

Modbus IP

Modbus IP

Modbus IP

OCPP 1.5, 1.6
or Modbus IP

Smartbirds
P1 dongle
Wifi or LTEM

Modbus IP

IO via
Modbus IP
module