ps ‖ systec

SMARTsocket
Measure Energy Consumption and Detect Power Failures

SMARTsocket is a cellular gateway for detecting power failures and includes integrated energy monitoring functions. It is the ideal solution for companies looking to monitor and manage decentralized assets in order to avoid unnecessary service deployments. SMARTsocket uses the IoT cloud platforms of Cumulocity and the Cloud of Things, allowing customers to monitor large numbers of assets centrally.

Remote Management

CUMULOCITY IoT

Key Features

- Blackout detection
- Energymetering
- Remote On/Off Load

- Telekom Cloud of Things for easy management
- LTE-M cellular technology
- SIM-free operation possible

Voltage failure detection, manual disconnection

Optional: Detection with ambient/environmental sensors

True RMS Power Measurement

Switch relay for remote reset of loads up to 2000W

Anomaly detection in power consumption

LTE-M
NB-IoT

RADIO

4G LTE	optional LTE Cat 1 B1(2100) B3(1800) B7(2600) B8(900) B20(800)
2G	B2 B3 B5 B8
NBIOT / LTE - M	B1 B2 B3 B4 B5 B8 B12 B13 B18 B19 B20 B25 B28 B66 B71 B85 B103
Regions	WorldWide

SENSORS

Motion	3-axis accelerometer, ±2g / ±4g / ±8g / ±16g Continuous operation Data rate 1hz (up to 5300 Hz possible) Shock detection
Power	Measurement range: 0...3600Watt Active and reactive power Accuracy: + / -1.5 Watt
LED	OFF – Device is off ON – Device is on, no mobile network detected BLINKING – Device is on and mobile network found (can take up to 15 min)
USB	USB 2.0 HS: For programming, logging and diagnostics
Relay Switching	Switchable load up to 2000W Controlled via cloud interface with manual/auto switch Auto mode includes timer function for automated switching

EXTERNAL SENSORS (Optional)

Water Leakage	Detection of flooding Functions: Securing inlets and drains, e.g., at bathtubs, washing machines, boilers, water storage tanks, etc.
Temperature	Accuracy: ± 0.5 °C, range -15 to +40 °C

MANAGEMENT PLATFORM

Supported platforms	Telekom Cloud of Things, Cumulocity IoT, A1, Mindsphere, ooredoo, Telia, and others
Communication	LWM2M
Access	Bi-directional communication
OTA	yes
FOTA	yes

GENERAL

Weight	89g
LTE Antenna	OnBoard
SIM Card	4FF / eSim Option
Operating T/H	-40°C .... 85°C / Max. 85%
Storage Temp.	-40°C .... 85°C / Max. 85%
Dimensions	99,7 x 55,2 x 28
Ext. Sensor	External Sensor 1,5m cable
IP class	P20
Approval	CE UKCA
Compliance	2014 / 53 / EU (Radio Equipment Directive) Radio EN301511 v12.5.1 EN301908 v13.1.1 EMC (Electromagnetic Compatibility) EN301489-1 v2.2.0 General Part EN 301489-52 v1.1.0 DIN EN 61326-1 – 2018-09 Safety DIN EN 61010-1: 2020-03, VDE 0411-1:2020-03 Cybersecurity EN 18031:2024
Warranty	1 year

Remote Manager

Fleet Management
Activate, monitor and diagnose your devices from a single point of access – your desktop or mobile app.

Monitor the status of your connected systems by analyzing diagrams from various widgets, with a wide range of evaluation options available.

Cockpit
Configure threshold monitoring, events, critical alarms, warnings and reports.

Open API
Use REST API to forward data to third-party systems or generate custom notifications.

Third-party IoT platforms

CUMULOCITY   Telia | A¹ Digital ...and more