

Wall Reader products

Technical Data Sheet

Smart Access Solutions GmbH
c/o WERK1, Atelierstr. 29, 81671 München, Deutschland

info@smart-access-solutions.com
www.smart-access-solutions.com

Short Description: Wall Reader with relay and/or lock electronics module for Bluetooth control via smartphone app of electronic standard locks

Item numbers: SAS-WR01 Smart Access Solutions – Wall Reader



Scope of delivery: Wall Reader in IP66 Housing
Optional battery, type CR123A

available as spare parts: Cable sets for various controllers
Ultra-power battery for low temperature environments

Technical Data:	SAS-WR01
Weight without Battery:	137.0 gr.
Weight (incl. Battery):	153.6 gr.
Dimensions (L, W, H)	132 mm, 69 mm, 48 mm
Operating temperature:	-20 °C to +60 °C at maximum 90 % humidity
Operating voltage:	3 Volt with internal Battery 5 – 12 Volt DC with external power supply
Internal Battery:	CR123A (only necessary if battery powered)
Housing:	IP66 water resistant
Load Voltage of Relay:	220VDC/250VAC / 2/5A
Hardware Type:	System on a Chip
Processor:	Nordic nRF52832 system
Memory:	512 K Flash / 64 K Ram
Core:	32-bitARM Cortex M4F
Interfaces:	Bluetooth with 5.0 BLE frequency 2.44 GHz
Software:	SAS Secure OS based on free RTOS (Real Time OS)

Features

Locking and unlocking	Integrated in Smart Access Solutions Secure Cloud Core framework, the lock electronics is operated with the okey smartphone app via Bluetooth Low Energy. The okey smartphone app is the user interface to control the locks and the link to the Secure Cloud Core framework.
Battery management (only if battery powered)	When operating the keysafe with the okey smartphone app, data from the lock is collected in the background by the app and sent from the app to the central Secure Cloud Core platform. Thus, the battery levels of all Keysafes of a client are stored and displayed centrally in Secure Cloud Core each time the keysafe is used. If battery levels fall below defined thresholds, notifications (information, warnings, alarms) can be sent. For more information.
Security	AES encrypted connection between Wall Reader and okey smartphone app on top of BLE standard encryption and security services.
Optional Sensor Data	Due to the various expansion options, the connection of external sensors is easily possible with little effort

Connectors and Switches



Connector: LED	3 separate LEDs or RGB LED
Connector: IN	2 separate inputs
Connector: + VEXT -	External power source up to 12V DC Pay attention to the correct polarity (+ / -)
Connector: + VBatt -	connected to the internal battery holder never use with power supply > 3.3V DC or when CR123 Battery is in the battery holder Pay attention to the correct polarity (+ / -)
Connector: Engine	Connect electrical or magnetic locks
Battery Holder	for internal power supply – used for a CR123A Battery
Fixed Terminal Blocks:	
2 Pole (left)	connected to + VEXT – External power source up to 12V DC Pay attention to the correct polarity (+ / -)
3 Pole (right)	Relay: NO- COM – NC

Do not use the Mode button. It's only used for production purposes of hardware. Pressing the Mode button for more than 3 seconds can potentially put the unit into an unusable state.

The product will be delivered with a customer specific configuration within the firmware. So, the usage of hardware connectors may differ from this description depending on customer use.

Customers will get a detailed onboarding workshop for the usage of the product, before starting production.