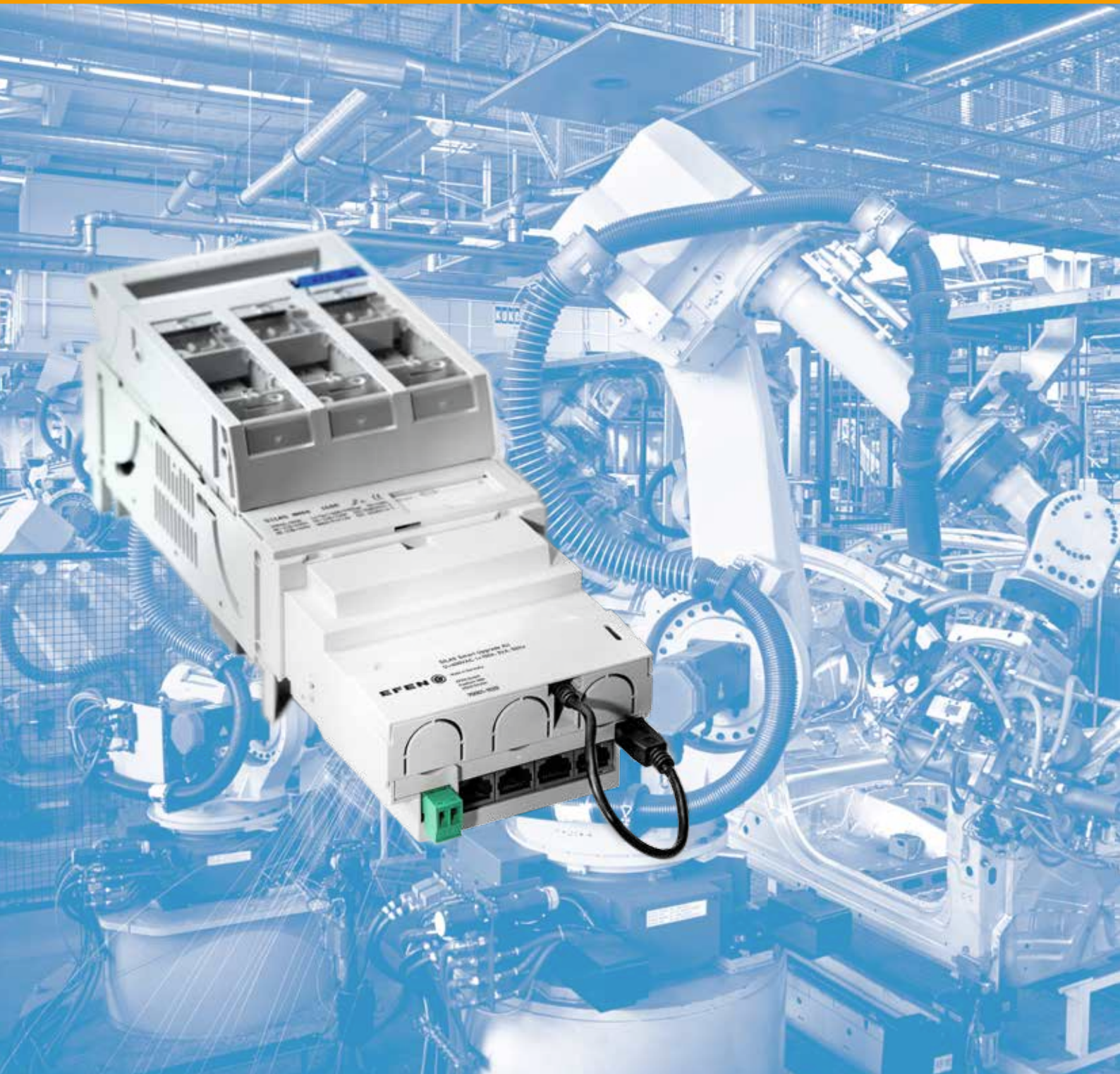




IN THE LINE OF POWER



Smart Grid Ready for Power Management
SILAS Smart Upgrade Kit

Power Metering and Plant Monitoring the Smart Way

Acting responsibly in terms of energy consumption is becoming a competitive factor for companies. Power management systems in accordance with DIN EN ISO 50001 are implemented in order to continuously reduce power consumption. The SILAS Smart Upgrade Kit records and monitors the key operating parameters of a plant.



Smart Grid Ready

The SILAS Smart Upgrade Kit allows the continuous logging and the analysis of power consumption, utilization curves as well as maintenance and fault messages. It is supplied as a unit ready for connection and is simply installed into the primary current line behind the fuse-switch. Current transformer, voltage tap, communication module and data interface are already integrated.

Product features



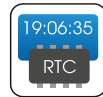
- Customer-configurable alarm functions for all electrical values



- Data memory and logging of events for one year



- Two operating hours meters for total time of operation and metering when a customer-configurable current threshold is exceeded



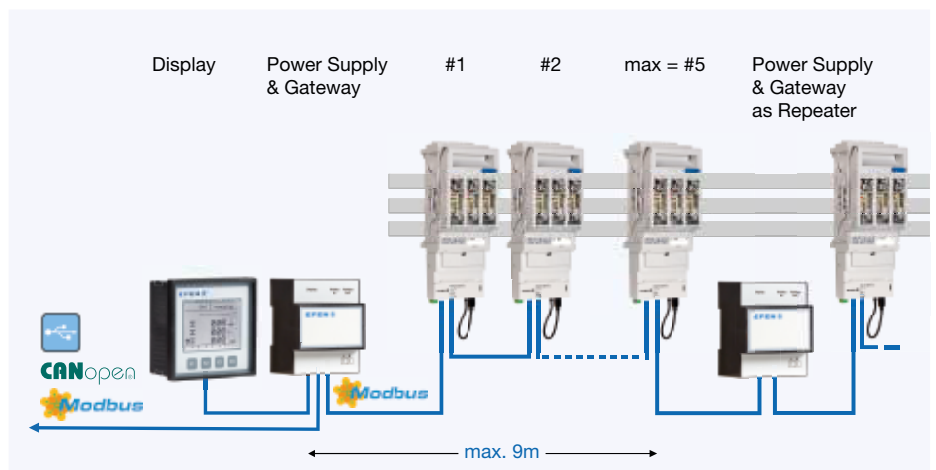
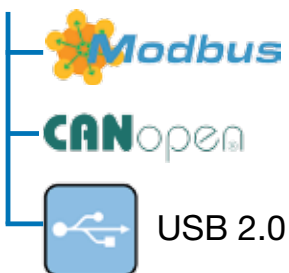
- Real-Time Clock (RTC) applying a time stamp to saved data



- Simple and time-saving isolation for annual statutory insulation testing of electric systems

Multiple communication options

Programming and data communication via Modbus RTU or CANopen. Recording of operating data, updates and configuration via USB interface.



Display connection via Modbus RTU with parallel 24 V DC power supply

Measurement ranges

Measured values

Voltage V1 / V2 / V3/ VN (opt.)

Voltage U12 / U23 / U31

Current I1 / I2 / I3 / IN

Power metering:

3P, P

3Q, Q

3S, S

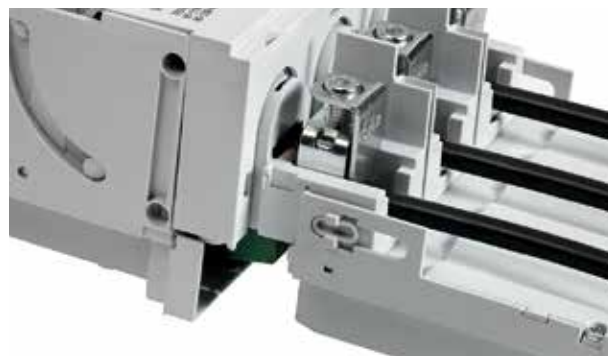
Description

Phase-to-N voltage

Phase-to-phase voltage

Currents of phase L1, L2 and L3. Current of N is calculated.

The device measures momentary value and total value



Convenient isolation during testing



SILAS Smart Upgrade Kit, NH 00, 150 A, M8 terminal

Designation

Article number

SILAS SUK NH 00 150A U5

70001-1510

SILAS Smart Upgrade Kit, NH 00, 150 A, box clamp

Designation

Article number

SILAS SUK NH 00 150A R5

70001-1520

Accessories

Spacer for baseplate devices

Designation

Article number

SILAS SUK spacer 25 mm

70901-0000



Mains adapter/gateway: Input 230 V AC; output 24 V DC via RJ45 Modbus RTU; hat rail

Designation

Article number

Mains adapter for gateway Modbus HB

70908-0000



Display: Input 24 V DC via Modbus RTU; for use as display and configuration unit

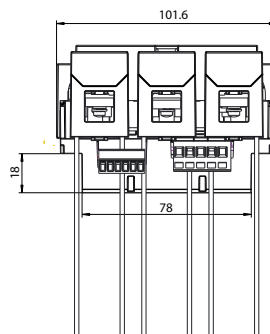
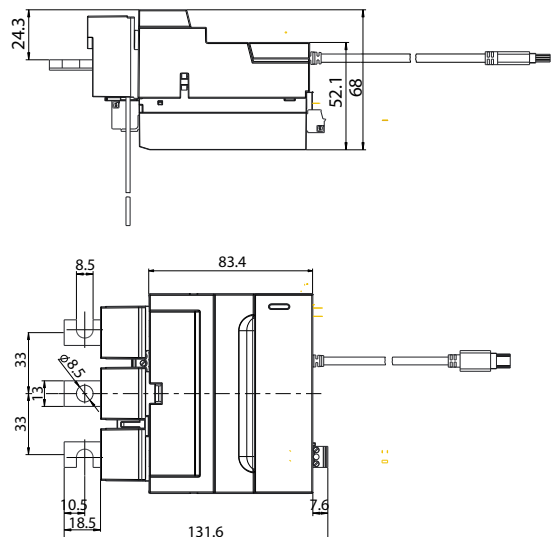
Designation

Article number

Display Modbus RTU 96x96

70807-0000

Dimensions drawings





IN THE LINE OF POWER



Efficient Distribution

When it comes to reliable power supply, replacing nuclear power with renewable energy is one of the greatest challenges. To this end, EFEN offers consistent solutions for safety interfaces from power generation to power storage and the selective regulation of consumers.



Reliable Protection

Reliable protection for people and investments is a key requirement of every energy distribution system. Comprehensive solutions from EFEN ensure maximum safety in all areas of power supply, infrastructure, and industry.



Smart Control

Higher energy efficiency reduces peak loads and lowers energy costs. Early-warning systems keep unplanned plant downtimes to a minimum. Smart solutions by EFEN ensure reliable communication and maximum availability of power distribution systems.

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