

# SIEMENS

Member of  
the platform  
SICAM 8



## ENERGY AUTOMATION PRODUCTS

# Transparency in local grids and distribution stations

## SICAM EGS

Digitalization for low and medium voltage grids

[siemens.com/sicam-egs](https://www.siemens.com/sicam-egs)

### Configure, install, profit

**Our innovative, compact “all-in-one device solution” enables you to efficiently and digitally monitor low-voltage grids with minimal effort.**

The SICAM EGS (Enhanced Grid Sensor) is used in local distribution stations, low-voltage and fuse distribution cabinets, cable distribution cabinets, and house connection boxes.

In combination with the SENTRON 3NACOM fuse inserts, you can capture the low-voltage branch currents with SICAM EGS without retrofitting transformers and rewiring using wireless communication.



- **Configure**  
Even in the office, you can configure the device for your specific application. For this purpose, a user-optimized engineering template is available to you.



- **Install**  
Without any intervention in the existing plant wiring, you can install the pre-parameterized device on-site in the station.  
Install our new SENTRON 3NACOM fuse inserts in the low-voltage fuse rails.



- **Profit**  
SICAM EGS provides your distribution grid data. With the new functionality for determining the power flow direction, the processes in your distribution grid are now completely transparent.

### SICAM EGS – Application Areas

- **Power Distribution Monitoring**  
Distribution grid automation optimized for use in LV / MV switchgear. The rapid provision of relevant grid data/ detailed information enables controlling interventions in the LV distribution grid.  
The connection of MV devices brings a significant cost reduction of overall solutions.
- **Device Monitoring**  
for switchgear and for the detection of transformer-damaging disturbances.
- **Grid Connection Monitoring**  
for solar parks, wind farms and charging stations for electric vehicles.
- **Communication Gateway**  
for various networks and protocols, simple SCADA connection.
- **IoT Gateway**  
for easy integration of products and solutions for measurement technology, sensors, protection and automation, power quality and measurement technology to cloud-based platforms for asset management and data analysis.
- **Technology beyond local distributors**  
System connections and cloud-based monitoring/control.
- **Grid Expansion**  
SICAM EGS supports data-based grid planning and thus enables cost-saving grid expansion.

## SICAM EGS – Customer Benefits

SICAM EGS provides an effective retrofit solution for capturing and forwarding messages and measured values from medium-voltage switchgear and low-voltage fuse distribution boards in existing local grid substations.

- **Flexible, easily expandable**  
prepared for upcoming changes in power distribution
- **Permanent grid monitoring**  
for optimized utilization of the existing infrastructure
- **Utilization of smallest space conditions**  
for narrowest distribution without complete rebuilding
- **Designed for harsh operating conditions**  
direct installation in cable distributors without additional control cabinet, without additional devices
- **Cost-effective simple installation**  
pre-configured devices, simple installation and commissioning guarantee short conversion times
- **Proven SICAM A8000 technology**  
Investment in the future based on the SICAM 8 platform
- **Cybersecurity**  
Fulfillment of IT security requirements in the critical infrastructure
- **Maintenance-free**  
long service life based on RTU standards

## Variants

- **8MF36101AA10**, Rogowski coils cable length: 1 m, Dimensions: 200 mm x 100 mm x 50 mm (WxHxD)
- **6MF36111AA11**, Rogowski coils cable length: 3 m, bridging time in case of voltage failure: 1 minute, Dimensions: 200 mm x 100 mm x 60 mm (WxHxD)

## Technical Characteristics

- Integrated 3-phase measurement functionality for current and voltage monitoring in the low-voltage grid; additional calculation of electrical quantities (P, Q, S, cos phi, f, etc.)
- Automation functions (IEC 6113-3), e.g. for controlling a regulated distribution grid transformer
- Enables the integration of third-party applications in a Docker-based container runtime environment
- Capturing the outgoing currents from the low-voltage fuse distribution via encrypted radio communication (Wireless based on IEE 802.15.4) between SICAM EGS and SENTRON 3NA COM fuses with integrated current sensors. Detection of the power flow direction
- Remote control communication using standards IEC 61850, IEC 60870-5-104, DNP 3.0
- Connection of multi-measurement devices or short-circuit indicators (e.g. SICAM FCM/FCMplus) via Modbus interface (serial)
- Ethernet interface and integrated LTE module for easy adaptation to existing communication infrastructures
- IoT connectivity: Providing data over a secure internet connection for cloud-based applications and services (MQTT (JSON Coding), Sparkplug B, OPC UA Pub/Sub etc.)
- Auxiliary power supply directly from the measurement voltage reduces the installation effort
- Weight: 1.2 kg
- Protection class: IP50

## Our Tip

Use or register in our Siemens SiePortal and you will have access to all product documentation for SICAM EGS today.

[SiePortal Registration](#)

[SiePortal SICAM EGS](#)

