

Our Range of Product Lines



• BASIC LINE

• PROFESSIONAL LINE

• HIGHTECH LINE

• WI LINE

• HIGHPROTEC LINE



SCAN ME



High**PROTEC**

Protection made simple



KEMA Labs



- Full protection package with differential and step-up transformer protection
- Intuitive configuration tools reduce commissioning effort
- Plausibility verification intelligence
- Optimized functional overview by hiding unused functions, parameter and assignments
- On-board testing without removing the wiring
- Menu languages supported: English, German, Spanish, Portuguese, French, Russian, Polish, Romanian

WIC 2nd Generation

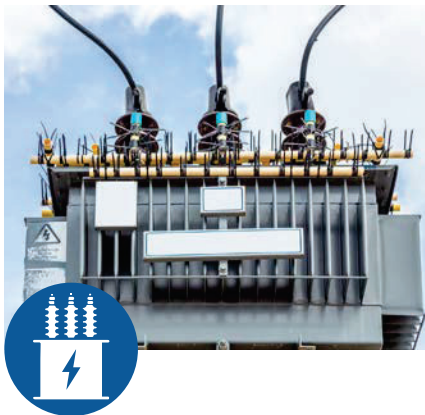
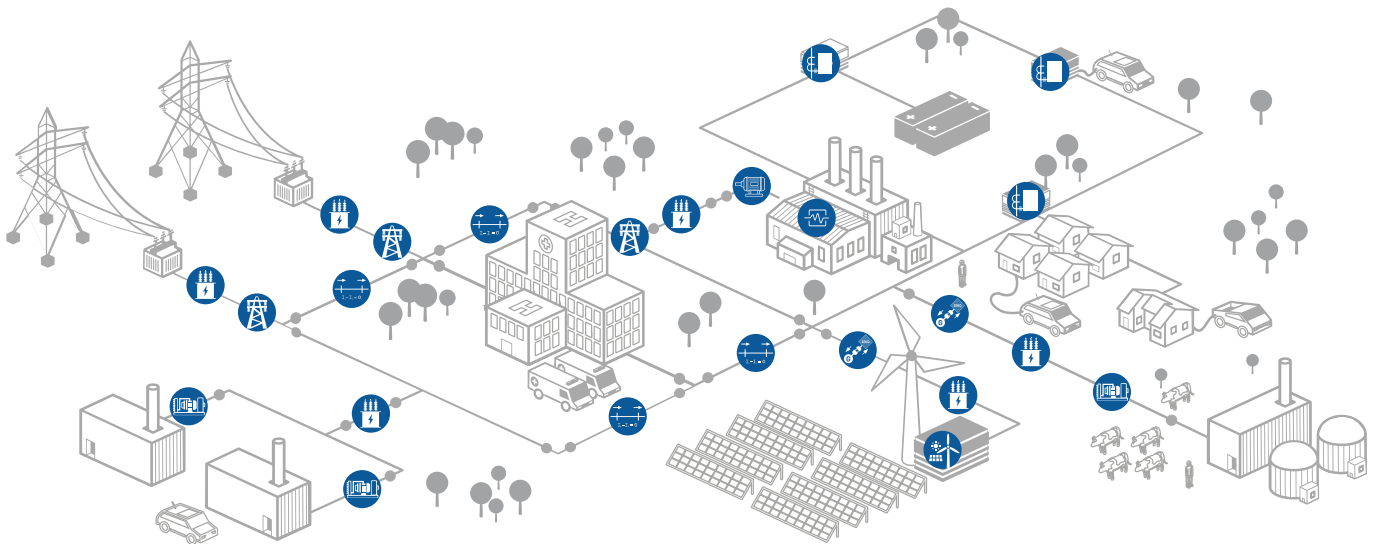
Faster than your airbag



- Configurable Inrush Protection
- ANSI 50/51, 50N/G, 51N/G, 46, 49, 74TC, 50BF, ExtP, SOTF, PVOC
- Compact formfactor (same as before), no battery inside
- Super fast mounting
- Super fast setting
- Early wake up currents
- Super fast Peak Value Overcurrent (including boot up time)
- Best in class SOTF (Switching onto Fault)

* UL Certification is ongoing

Areas of Applications



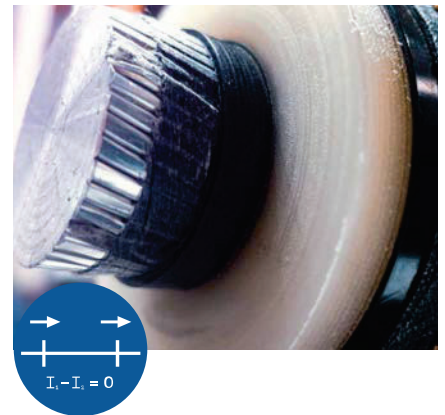
TRANSFORMER PROTECTION

Transformer protection and maintenance is essential for a reliable energy supply. The intelligent electronic devices from SEG Electronics with perceptive algorithms protect your electrical equipment against damages that are costly and difficult to replace.



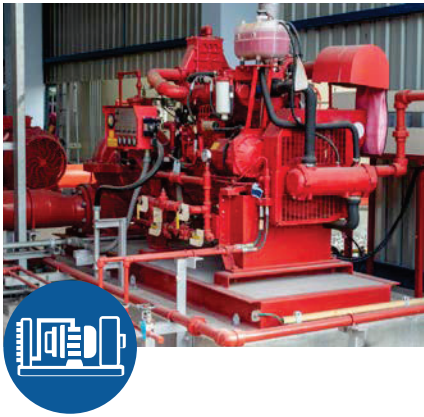
MOTOR PROTECTION

To ensure day-to-day electrical induction motors keep processes running, and to maximize the motor's operating life, SEG Electronics offers a variety of highly-adaptable Intelligent Electronic Devices to protect them against inadmissible electrical, thermal, or mechanical stress.



LINE DIFFERENTIAL PROTECTION

SEG Electronics offers line differential protection with fiber optic communication, because it is the best way to protect an overheadline or cable. Speed is important for differential protection because it is the most selective protection. Since communication between the devices occurs via fiber optic connections, data transmission is extremely safe.



GENERATOR PROTECTION

The Generator Protection Relays from SEG Electronics covers the full range of protective elements for medium and large generators, including differential, pole slip, inadvertent generation, phase backup distance protection, and furthermore elements.



INTERCONNECTION / MAINS DECOUPLING

During mains failures, DER (Distributed Energy Resources) should stay operated and connected to the grid to support decreasing mains voltage, by feeding reactive power. SEG Electronics has developed various Intelligent Electronic Devices in compliance with international grid requirement.



POWER DISTRIBUTION

CT Powered Distribution Protection: These relays take their energy from the current transformers. No auxiliary power supply needs to be provided. Their potted electronics are well suited for the protection of RMU transformers even in the harshest environments.



RENEWABLE ENERGY

SEG has developed CT-powered protection relays for the protection of solar and wind step-up transformers. In addition to that SEG offers protection relays for the interconnection point (PCC) meeting local interconnection standards.



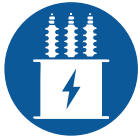
FEEDER PROTECTION

From the generation via transmission and distribution down to the load, the feeder protection relays from SEG Electronics protect the entire power chain throughout different voltage levels. SEG Electronics work safely and precisely, and are well-proven in the fields of utilities, industrial, and other power systems.



EQUIPMENT SUPERVISION

SEG Electronics supervision relays for low voltage applications are equipped with a precise micro-controller and designed for DIN-rail mounting. They are easy to operate and simplify commissioning. This is advance technology at a low price.



Transformer Protection



MCDTV4
Enhanced Transformer
Differential Protection



MRDT4
Transformer Differential
Protection



IRI1-ER
Restricted Earth Fault
Protection Relay



Motor Protection



MRMV4
Motor Protection Relay



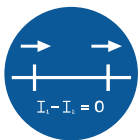
MRM4
Motor Protection Relay



MRM3-2IE
Motor Protection Relay



XM1
Motor Protection Relay



Line Differential Protection



MCDLV4
Line Differential Protection



Generator Protection



MCDGV4
Generator Protection Device



MRG3
Generator Protection Device



MRG3-I
Generator Protection Device



MRP2-3IU
Power and Reverse Power Protection Device



MRP2-R3IU
Power and Reverse Power Protection Device



MRQ1
Field Failure Protection Relay



MRR1
Rotor Earth Fault Protection Relay



MRS1
Negative Sequence Protection Relay



XD1-G
Differential Protection Relay



XE2
Current Relay for Loss of Excitation Protection



XG2
Generator-Mains Protection Relay



XP2-R
Power and Reverse Power Protection Relay



XR1
Rotor Earth Fault Relay



XS2
Current Unbalance Protection Relay



XUA1
AC Voltage Protection Device



XUF2
Voltage and Frequency Protection Relay



Interconnection / Mains Decoupling



MCA4
Directional Feeder
Protection Relay



MRU4
Voltage Protection Device



MRA4
Directional Feeder
Protection Device



MCDTV4
Enhanced Transformer
Differential Protection



MCDGV4
Generator Protection
Device



MRU3-2
Voltage Protection Relay



MRU3-1
Voltage Protection Relay



MRN3-3
Mains Decoupling
Protection Device



MRN3-2
Mains Decoupling
Protection Device



MRN3-1
Mains Decoupling
Protection Device



MRF3
Frequency Protection Relay



XRW1-4
Mains Decoupling
Protection Device



XRN2-2
Mains Decoupling
Protection Device



XRN2-1
Mains Decoupling
Protection Device



XUA1
AC Voltage Protection
Device



XU2
AC Voltage Protection
Device



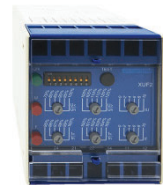
XN2-2
Mains Decoupling Protection Device



XN2-1
Mains Decoupling Protection Device



XF2
Frequency Protection Relay



XUF2
Voltage and Frequency Protection Relay



Power Distribution & Renewable Energy



WIB12FE
CT Powered Time Fixed Terminals Overcurrent and Earth Current Relay



WIB12PE
CT Powered Time Pluggable Terminals Overcurrent and Earth Current Relay



WIC1-1
CT Powered Time Overcurrent and Earth Current Relay



WIC1-2
CT Powered Time Overcurrent and Earth Current Relay



WIC1-3
CT Powered Time Overcurrent and Earth Current Relay



WIC1-4
CT Powered Time Overcurrent and Earth Current Relay



WIC1-1 2nd Gen
CT Powered Time Overcurrent and Earth Current Relay



WIC1-2 2nd Gen
CT Powered Time Overcurrent and Earth Current Relay With DIP Switches



WIC1-3
CT Powered Time Overcurrent and Earth Current Relay With HEX Switches



WIC1-4 2nd Gen
CT Powered Time Overcurrent and Earth Current Relay



DigiMEC
Nano HMI And Flag Indicators For The Second Generation Of WIC1 (WIC1 G2)



WIP1A-CT...
CT Powered Time Overcurrent and Earth Current Relay



Feeder Protection



MCA4
Directional Feeder Protection



MRI4
Feeder Protection Relay



MRA4
Directional Feeder Protection Relay



MRIK3-ICE
Time Overcurrent/Earth Fault Current Relay with Auto Reclosing and Control Function



MRIK3-IE
Time Overcurrent/Earth Fault Current Relay with Auto Reclosing and Control Function



MRI3-ITER
Time Overcurrent/Earth Fault Current Relay with Thermal Replica



MRI3-ICE
Time Overcurrent/Earth Fault Current Relay With Control Function



MRI3-IXR
Time Overcurrent Protection Device Multicharacteristic



MRI3-IX
Time Overcurrent Protection Device Multicharacteristic



MRI3-IRER
Time Overcurrent Protection Device Multicharacteristic



MRI3-IRE
Time Overcurrent Protection Device Multicharacteristic



MRI3-IER
Time Overcurrent Protection Device Multicharacteristic



MRI3-IE
Time Overcurrent Protection Device Multicharacteristic



MRI3-E
Time Overcurrent Protection Device Multicharacteristic



MRI1-IU
Voltage controlled time overcurrent relay



MRI1-IE
Time overcurrent relay with Multi-Characteristic



MRI3-IHE

Time Overcurrent/Earth Fault Current Relay with Harmonic Stabilizing



MRIK3-ICER

Time Overcurrent/Earth Fault Current Relay with Auto Reclosing and Control Function Grids



MRI3-IRXR

Time Overcurrent Protection Device Multicharacteristic



XRI1-I-R

Directional Overcurrent and Short-Circuit Protection Relay



XRI1-I-E

Phase and Earth Overcurrent Relay for Compensated or Isolated Grids



XRI1-E-R

Directional Earth Overcurrent Protection Relay



XU1-E

Earth Fault Voltage Protection Relay



XI1-S-R

Earth Overcurrent Relay for Solidly or Resistance Grounded Grids



XI1-S

Earth Overcurrent Relay for Solidly or Resistance Grounded Grids



XI1-I

Overcurrent and Short-Circuit Protection Relay



XI1-E-R

Earth Overcurrent Relay for Compensated or Isolated Grids



XI1-E

Earth Overcurrent Relay for Compensated or Isolated Grids



Equipment Supervision



BF1
Frequency Relay



BN1
Mains Decoupling Relay



BU1AC
Voltage Protection Relay



BU1DC2
DC Voltage Protection Relay



BUA1
Voltage and Voltage Balance Relay

Accessories



MRT1
Test Unit



XRS1
Interface Adapter RS485



WIC1-TU
Monitoring unit for WIC1 relays



WIC1W2AS1
WIC1W3AS1, WIC1W4AS1
WIC1W5AS1
Current Transformer



WI1-SZ4
Mechanical Flag Indicator



WI1-SZ5
Mechanical Flag Indicator with 2 Output Relays



WIC1-CT2A
WIC1-CT3A, WIC1-CT4A
WIC1-CT5A
Current Transformer



One Software For All SEG Devices

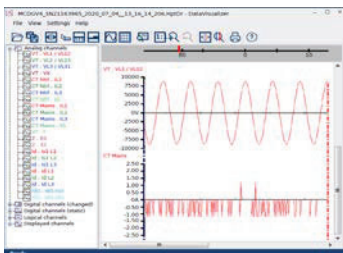
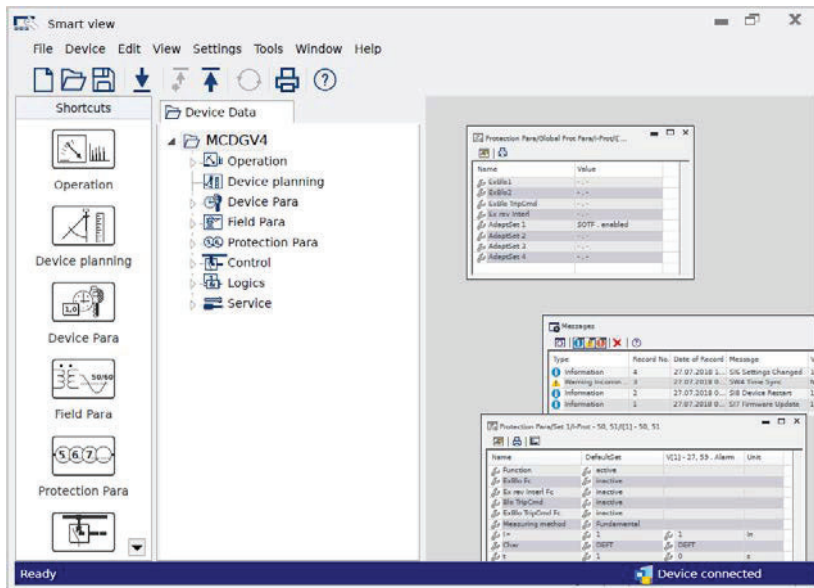
Smart view is our parameter setting and evaluation software. It is intended to be connected with our protection devices, so that these can be set up using a Windows PC.

The full feature set, as available with e. g. HighPROTEC devices, comprises:

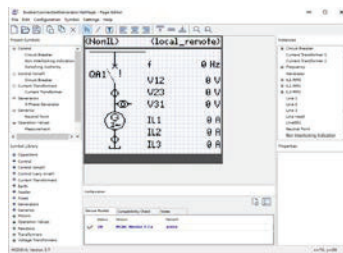
- Menu-controlled parameter setting incl. validity checks
- Offline configuration of all relay types
- Reading and evaluating of statistical data and measuring values
- Setting into operation assistance
- Display of the device status
- Fault analysis via event and fault recorder



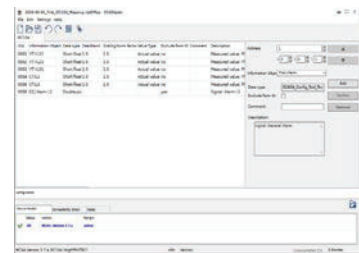
SMART VIEW



DATA VISUALIZER
Evaluation Tool For
Disturbance Records



PAGE EDITOR
Editing Software For
Control Pages



SCADAPTER
Scada Protocol
Configuration Tool

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