

MBS Magazine

“MBS AG...

because it's simply great!”



product portfolio



www.mbs-ag.com

Two vertical bars, one blue and one green, are positioned to the left of the title.

Product portfolio

A grayscale background image of a power line tower with a blue semi-transparent rectangle overlaid on the right side.

**We're already designing
the future for you
TODAY!**

Two horizontal bars, one blue and one green, are positioned at the bottom right of the slide.

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Low-voltage current transformers



Plug-in current transformers

Plug-in current transformers

- For various rail sizes
- Used mainly for constructing switching cabinets, and plant engineering
- For currents between 40 A and 5,000 A



Plug-in current transformers

Plug-in current transformers

- For various rail sizes
- Used mainly for constructing switching cabinets, and plant engineering
- Screw-free connection technology, Cage Clamp®
- With UL approval



Mini current transformer

Mini current transformer

- For primary currents between 32 A and 64 A
- Used mainly in construction of switching cabinets and plant engineering, e.g. charging stations
- Connection via removable connection terminals
- With UL approval



KBR

OUR OPEN CONVERTER

Cable wraparound transformer

Cable wraparound transformer

- 8 designs for various round conductor dimensions
- Used mainly for constructing switching cabinets, and plant engineering
- For retrofitting
- No disconnection of the primary current circuit required
- One-handed installation by means of "click system"



KBU

OUR DIVISIBLE CONVERTER

Cable wraparound transformer

Cable wraparound transformer

- 4 designs for various rail sizes
- Used mainly for constructing switching cabinets, and plant engineering
- For retrofitting
- Ready for immediate use



ECTB
EASK

OUR BILLING COMPONENT

Billing transformer

Billing transformer

- Current transformer for billing measurement
- High accuracy classes
- Our own testing centre
- Therefore short delivery times

High current transformers

High current transformers



ASKG

OUR PRECISION COMPONENT

High current transformers

- External-field-compensated current transformer
- For primary currents between 3,000 A and 8,000 A
- High accuracy classes
- Used in wind energy

Harmonics measurement

Harmonics



XCTB

OUR HARMONICS MEASURER

Harmonics measurement

- Measurements up to 20 kHz
- Used mainly by energy supply companies and in industry
- For capacitive banks
- For use in networks distorted by harmonics
- Power quality measurement

Harmonics



XKBR
XKBU

OUR DIVISIBLE CONVERTER

Harmonics measurement

- For retrofitting to networks distorted by harmonics
- Used mainly by energy supply companies and in industry
- Measurements up to 20 kHz
- Power quality measurement

Harmonics



CTS
VTS

OUR BIG CONVERTER

Medium voltage transformers

- Power quality measurement
- Frequency-optimised model, available with one or more cores or windings

Low-voltage voltage transformers

Voltage transformers



VTLS
VTLD

OUR LOW-VOLTAGE COMPONENT

Low-voltage voltage transformers

- Especially voltage-resistant and highly efficient
- Class-accurate harmonics transmission up to 20 kHz
- Single- and dual-pole insulated
- For voltages up to 1,000 V

Current transformer accessories

Accessories



Odds and ends

- Copper rail/pipe
- Mounting bracket
- Quick Fix
- Clamping jaws, clamping module
- Sealed shutters, anti-twist device
- Fastening material

...and much more!

Medium voltage transformers

Medium voltage transformers



Medium voltage transformers

- Slender design as per DIN 42600-8/9
- For operating voltages up to 36 kV
- For measurement, protection, or billing purposes
- Also available as multi-core transformer
- Internal consumption transformer up to 2,000 VA

Cast resin transformers



Cast resin transformers, single part and divisible

- Cable wraparound transformer for interior use
- For measurement and protection purposes
- Many variants possible, thanks to modular construction
- Primary currents between 30 A and 5,000 A
- Encapsulated

Medium voltage sensors



Medium voltage sensors

- For use in secondary energy supply
- Design suitable for all commercially available T-plugs
- Class-accurate transmission
- Extremely simple installation and retrofitting of voltage measurements

Medium voltage insulators

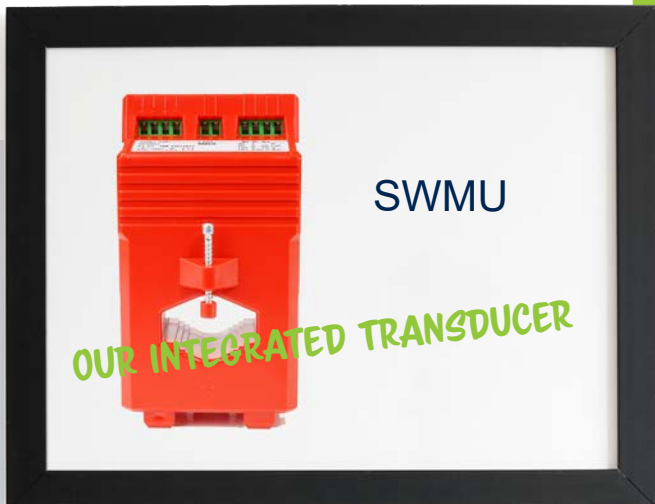


Medium voltage insulators

- Design as per DIN IEC 60273
- Resin-cast in various sizes: 12 kV, 24 kV, and 36 kV
- For use in indoor and outdoor equipment
- Customer-specific cast resin parts are also available

Measuring transducers

SWMU measuring transducer



SWMU measuring transducer

- Monitor, control, and record
- Multiple devices can be connected to the output
- Used for energy generation, energy distribution, and in systems and equipment construction
- Reduced wiring effort

MU measuring transducer

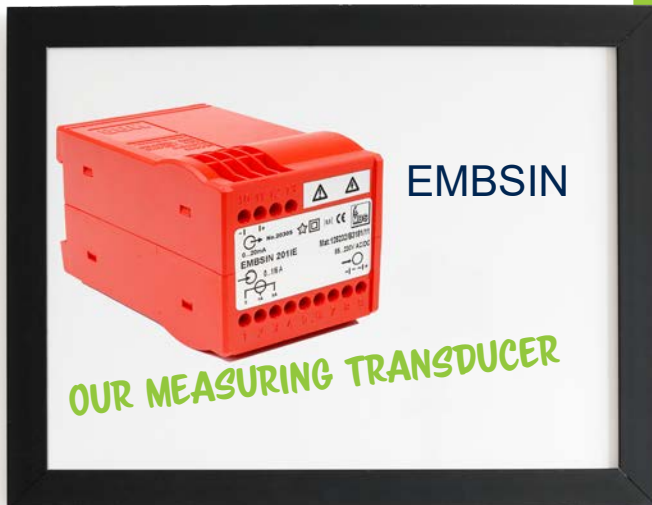


MU measuring transducer

- For alternating current, alternating voltage, frequency, phase angle, power factor, effective power, reactive power, direct current, and direct voltage
- With or without auxiliary voltage
- Suitable for frequency converters
- Configurable as desired

Measuring transducers

EMBSIN measuring transducer



EMBSIN measuring transducer

- Measuring transducer for all electrical parameters
- Monitoring of electrical networks and loads
- Used mainly in energy generation, energy distribution, and in systems and equipment construction

CCT universal current sensor



CCT universal current sensor

- Measurement of direct and alternating current possible using only one measuring transformer
- Range 0...100 kHz
- Low intrinsic consumption
- Safe wiring
- PU-encapsulated - high mechanical resistance

NMC for alternating current



NMC for alternating current

- Modular structure
- For sinusoidal alternating current
- Display, register, monitor and control
- Simultaneous operation of conventional pointer instruments
- For simple snap-on connection to MBS current transformers

Differential current transformers

Differential current transformers



Differential current transformer, Type A

- Differential current measurement for insulation testing
- Early recognition saves the need to switch the equipment off
- Protection for industrial equipment
- Connection to universal measuring devices

DACT + ISC combination



DACT + ISC

- For converting the differential currents into standard signal 4...20 mA
- Combination with DACT differential current transformer
- For differential currents between 20 mA and 25 A

Differential current monitor



RCMB 70 differential current monitor, Type B

- DC/AC differential currents up to 100 kHz can be measured
- Equipment can be switched off via circuit breakers
- Conversion to 4...20 mA
- Therefore multiple connection options (universal device and PLC)
- User-friendly operating panel
- Centring aid optionally available

Rogowski coil

FASK Rogowski coil



FASK

- Easy to apply and remove without disconnecting the power circuit
- No dangerous voltages during open operation - electricians are protected
- Can also be used in harsh environments
- Measuring range 0 to 10 kA
- Secondary conductor lengths 3 m, 5 m, and 10 m
- Supply cable can be shortened without loss of accuracy

ROI Integrator



ROI Integrator

- ROI integrator converts into 3 x 1 A standard signal
- Simultaneous connection of 3 Rogowski coils possible
- Compact casing
- Simple to connect

QE-485



Universal converter

- Universal converter for Rogowski coils, current transformers, measuring transducers, and all-current sensors
- Freely configurable analogue output as well as digital output (analogue and Modbus)
- Additional temperature measurement

Energy meters

Energy meters



Single and three phase energy meters

- Transformer meters or for direct measurement
- For energy and power measurement, demand and load analysis
- For energy controlling, cost centre management, and for billing applications
- MID approved
- S0 pulse output and various interfaces possible

Communication modules



M-Bus, KNX, Modbus, LAN-TCP/IP eVision, Wireless M-Bus

- Universal communication modules for extending communication functions
- Infra-red interface installed on the side
- Compact casing
- Simple to operate

Energy management

Energy management



Energy management econ 4.0

- ISO 50001 certified
- For assessment, analysis, and invoicing
- Can be integrated into existing system
- Intuitive to operate, short learning curves
- Modular design
- The solution for industry and skilled trades, energy providers and service providers, public utilities, and mechanical and plant engineering

Shunts



Shunts

Shunts

- For the indirect logging of high current strengths
- For current strengths between 1 A and 20,000 A
- With voltage drops of 60 mV, 100 mV, 150 mV, 300 mV
- Various designs
- Special versions available if required

Insulators and rail holders



Insulators

Insulators and rail holders

- Can be used under difficult working conditions
- Reinforced with glass fibre, and self-extinguishing
- Very good electrical and mechanical properties
- Type-tested short-circuit resistance

Heaters/controllers/fans

Switching cabinet heaters

Switching cabinet heaters

- Effective temperature and moisture management
- For use in larger electrical regulating, switching, and control equipment
- Top-hat rail or screw fastening
- Resistance and fan heaters
- Control equipment and accessories
- Filter fans and roof fans



■ MADE
■ IN
■ GERMANY

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Our product world