



Delivery overview – Complete programme

Limit controllers, transducers, shunts, position indicators, current transformers, analogue & digital panel meters, etc.



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Analog and Digital Panel meters, Limit controllers, etc.



Digital Panel Meters Bargraph indicators Large-sized Displays



We supply a wide range of digital mounting devices and large displays with the following functions:

- Freely programmable
- For standard signals
- DC or AC also with effective value measurement
- For temperature, pressure, frequency, speed, etc.
- Serial input or BCD-Input parallel or multiplex, TTL 5 V or SPS 24 V

Bargraph indicator with one or two bargraphs.

Digital small displays in digits of 8 mm to 25 mm.

Large displays up to 300 mm height, optional in the IP65 steel sheet housing.

Analog Panel Meters general



Our M-series is suitable for the measurement of high-current values as well as for the registration of output signals in process technology.

Dimensions according to DIN. 90°- or 240°-scale.

Insight into the product range:

- moving iron, moving coil and bimetallic meters
- slim edgewise instruments
- double voltage indicator
- double frequency indicator
- synchronoscopes
- phase sequence indicator

All products available in customer-specific design with regard to measuring range, illumination, colouring, scale division, logos and much more.

Analog Panel Meters in polycarbonate housing



Our K-series is suitable for standard applications in plant and apparatus construction and is a cost-effective alternative for larger quantities.

Insight into the product range:

- moving iron, moving coil and bimetallic meters
 - equipment for power, power factor and frequency measurement
 - bimetallic indicators combined with moving iron ammeter
- Mainly also in shipbuilding construction with type approval according to DNV.

++ with slight-in dial ++

**Do you have any questions?
Contact us, we will be pleased to help you.**

Limit Controllers



Our limit controllers are used as two-point controllers for monitoring of DC or AC amps and volts.

With added transducers, limit controllers are also used for monitoring active or reactive power, power factor and frequency.

The limit values are measured optically via the setpoint pointer.

The indicators are available as min / min, min / max or max / max limiters with potential-free relay output and two change-over contacts.

++ Made in Germany ++



Accessories



Shunts

Shunts are used to measure DC currents, especially at high current ratings.

We supply shunts with rated currents ranging from 1 A to 15.000 A.

The shunts are manufactured in class 0.5 with a voltage drop of 60 mV or 150 mV.

On request also available with deviating voltage drop and / or rated current.

Shunts up to 200 A also available with insulating base for standard rail mounting. Special shunts with dimensions deviating from DIN and / or higher accuracy can be produced on requirement.

Current Transformers

Current transformers convert high AC currents to standard currents of 1 A or 5 A.

Our range includes plug-in, rail, winding and cumulative current transformers.

Additional Items

- Rotary Cam Switches
- Voltage Dividers
- Switch Position Indicators

Transducers



Transducers convert high current values and process signals into proportional, standardized currents or voltages that are transmitted to indicators, controllers, computers, or SPS controllers.

A complete family of devices for DIN rail mounting is available:

- Alternating current or alternating voltage without auxiliary supply
- Alternating current or alternating voltage with auxiliary supply
- Active or reactive power, power factor and frequency
- DC or AC current TRMS
- DC or AC voltage TRMS
- Isolating Transducer active or passive

Outputs and inputs are galvanically isolated, short-circuit-proof and open-circuit protected. The transducers are manufactured in class 0.2 respectively 0.5.

Special versions and customer-specific designs are available on request.