



OUR COMPANY



EPHY-MESS GmbH is a competent solution partner of all manufacturers of electrical machines and drives. The medium-sized and family-owned enterprise consults, develops and produces for its customers individual sensor solutions for safety and control requirements. The focus is on the following market segments: rail technology, renewable energy and the general industrial segment.

Since 1955 high quality temperature sensors, detectors and modules are produced for the supervision of electric drives and machines. On a production area of over 4500m² temperature sensors are manufactured with long tradition, experiences and know-how and sold worldwide at an export ratio of 40%.

High service level and highly skilled sales engineers support the customer in solving temperature measurement tasks by generating customized products in a cost effective and timely manner. EPHY-MESS has implemented a high developed quality assurance system and is certified according to DIN EN ISO 9001 and DIN EN ISO 14001. For railway customer's special sensors are produced accordant to the International Railway Industry Standard (IRIS).



The product portfolio of EPHY-MESS contains classic *Resistance Temperature Detectors* based on Pt100 sensors for the thermal supervision of bearing, slot and coil of electric machines. Thermistors, KTY-sensors, bimetallic switches and thermocouples are produced in versatile configurations. Our product family of bifilar slot resistance thermometers monitor engines and generators in industry or in wind, water and standard power energy systems. The majority of the detectors are suited for the use in hazardous areas (ATEX directive, certified by PTB or IExU). Analogue and digital evaluation electronics complete the product range.

The temperature sensors are used in electric motors, generators, transformers and pumps, in the plant and heavy equipment construction, traffic engineering, wind power stations, refrigeration engineering, air-conditioning technology as well as in the measurement and control technology. Especially for the railway sector robust and shake proofed temperature sensors as well as oil level gauges and rpm sensors are produced.

Leuchtturm
Automation



Our products

Temperature sensors for the use in motors, generators, transformers, pumps, traffic technology, plant engineering, chemical industry, measuring and control technique, refrigerating and heating technique, as well as inside household appliances

- ▲ Resistance thermometers according to DIN EN 60 751 or DIN 43 760 by customer specific standards (drawings etc.) e.g. with connection head and protective fitting or as sheathed resistance thermometer
- ▲ Fixed and flexible slot resistance thermometers according to DIN EN 60 751 or DIN 43 760, PTB certificated as explosion proof constructions with Pt, Ni, or Cu measurement winding, also as shielded version, mean-value sensor
- ▲ Sensors and measurement resistors with thin layer technology, as well as with coiled construction of ceramic or special glass, also ready-made with connection line and protection collet
- ▲ Thermal elements according to DIN EN 60 584-1/-2
- ▲ Sheathed thermal elements according to DIN EN 60 584-1/-2 different sheath diameters and materials in diverse constructions
- ▲ NTC and PTC thermistors according to DIN 44 080/81/82 ff., NAT: 60°C ... 200°C; various constructions.
- ▲ PTC heating elements and KTY sensors, KTY release devices
- ▲ Bimetal switches with nominal switch temperatures of 60°C ... 220°C in diverse constructions
- ▲ Digital temperature measurement and display devices for diverse sensors and measurement resistors as assembly, table or hand measuring instrument for use at test department, workshop or laboratory
- ▲ Evaluation electronic: measuring converter, release devices, and accessories
- ▲ Flexible electric band heaters / heating belts according to DIN 0254 up to 180°C
- ▲ Temperature sensors, rpm-sensors and oil level gauges (only EN 61373) especially for the use in railroad machines according to EN 60751 / EN 61373 cat.3 / NF F16-101 / EN 50305 / UIC 564-2 / EN 45545-2 / DIN EN 60332-1-2:2005-06 / DIN EN 61034-2:2014-11



Short profile

Headquarter:	Berta-Cramer-Ring 1 65205 Wiesbaden, Germany
Legal form:	Limited liability company (GmbH)
Original capital:	51.129,19 €
General manager:	Dipl.-Kfm. Andreas Becker
Year of foundation:	1955
Turnover:	2016: 12.25 Mio. €
Number of co-workers:	190
Company grounds:	8.900 m ² (4.500 m ² production area)
Products:	Temperature sensors, temperature evaluation systems, elements and accessories; electric band heaters, oil level gauges and rpm-sensors especially for railroad machines
Certification:	DIN EN ISO 9001:2008 by TÜV CERT (first certification July 1995) DIN EN ISO 14001 IRIS (International Railway Industry Standard) ATEX- / IECEx certificated products GOST R / TR and Metrology Certificate GL Germanischer Lloyd (for slot resistance thermometers)
Memberships:	VDB Verband der Bahnindustrie in Deutschland e.V. AMA Fachverband für Sensorik e.V. ZVEI Zentralverband Elektrotechnik- und Elektronikindustrie e.V. BZEE Bildungszentrum Erneuerbare Energien
Customers/Industries:	Drive technology Electrical machine and apparatus construction Plant engineering Traffic technology Measuring and control technique Environmental technique Refrigerating technique and air conditioning Household appliances industry Medicine technology
Address:	EPHY-MESS GmbH Berta-Cramer-Ring 1 65205 Wiesbaden, Germany Phone: +49 6122 9228-0 Fax: +49 6122 9228-99 E-Mail: info@ephy-mess.de Web: www.ephy-mess.de