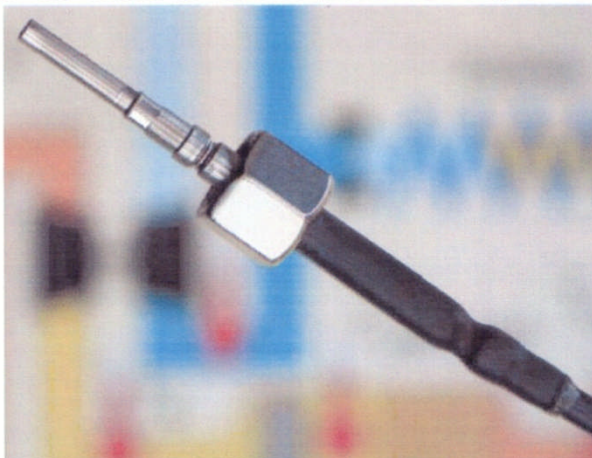

EngineSens Motorsensor developed engine intake air and engine exhaust gas temperature sensor

Located in southern Germany the Viernheim-based company developed the "M-TS" a universal temperature sensor based on PRTD. "We wanted to combine proven technologies with advanced manufacturing processes," said the managing director S. Carstens. "In the automotive industry mainly used NTC sensor elements are suitable only up to 300 °C. Our product covers the extended temperature range from -40 °C to +400 °C. So the decision was drawn in favor of a Pt1000, making the application independent from cable and contact resistances due to the high base resistance of the sensing PRTD." The sensor can be used universally to measure air temperature in the intake system after turbocharger, and on the exhaust side to monitor SCR systems for NOx removal and also for exhaust gas recirculation systems.



Based on a proven mineral insulated thermometer, the *M-TS* will be assembled with flexible production methods in a support sleeve and then be sealed. Those methods enable EngineSens to customize smaller requirements to individual needs and still match demanding cost targets. It is fixed by means of male or female nuts. This eliminates the hassle of turning the sensor during installation. Cable lengths, immersion depths, connector and mounting options are customized.

EngineSens Motorsensor distributes and manufactures engine exhaust gas temperature probes up to 1,100 °C, differential pressure sensors, air flow meters, display units and accessories.

Hall 12, Booth 571