

JUMO Level and Temperature Sensor for Commercial Vehicles



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To keep an engine or gears in optimum working order, numerous parameters have to be continuously monitored, with corrective intervention should there be any deviation. Two

of these parameters are the oil level and the oil temperature. The combined level and temperature sensor aids vehicle diagnostics in modern commercial vehicles, construction machinery and agricultural machinery. With this level sensor, which uses the hot-wire principle, it is possible to determine the level of the gear oil or engine oil in a 150 mm measurement section. Only by monitoring the level of the liquid can we be certain that the engine is not running with too much oil, or that, unobserved, the level has dropped to too little. Engine damage is avoided. The level sensor is also available with an additional temperature sensor. The temperature sensor is designed with a

Pt1000 shunt resistor conforming to EN 60751, Class B, in a 2-wire circuit. But Pt100 and Pt500 sensors, as well as NTC and semiconductor sensors, are also possible. The hot-wire voltage signal and the temperature sensor resistance signal are forwarded separately to the vehicle electronics for evaluation. The JUMO level and temperature sensor is designed for continuous operation at a temperature range between -40 to $+140$ °C.

JUMO GmbH & Co. KG
Moritz-Juchheim-Straße 1
36039 Fulda, Germany
Phone: +49 661 6003-0
Fax: +49 661 6003-500
E-mail: mail@jumo.net
www.jumo.net