

## **Safety temperature monitors and limiters – now with SIL certificate**

*In order to reduce potential dangers in plant and processes to a tolerable risk for people, material assets and the environment, it is necessary to use functionally safe devices.*

*Safety temperature monitors and limiters to DIN 3440 from JUMO GmbH & Co. KG, Fulda, Germany, have been developed especially for the sector “Temperature limiting devices for heat generating plant”. They reliably fulfill their function of monitoring safety-relevant plant over many years.*

These devices, which presently bear approvals to DIN 3440, DGR and GL, have been certified in accordance with the requirements of IEC 61508 (EN 61508) and comply with SIL (Safety Integrity Level) 2 or 3 in the LOW demand mode.

IEC 61508 is the basic standard for all plant that employ electrical, electronic or programmable electronic systems for monitoring safety functions. The standard defines both the kind of risk assessment and the measures for eliminating or reducing the risk.

As a result of the risk assessment, the plant is assigned to the corresponding SIL class in accordance with IEC 61508.

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JUMO GmbH & Co. KG, 36035 Fulda, Germany

Title: **Safety temperature monitors and limiters – now with SIL certificate**

With the SIL 2 or SIL 3 certification for safety temperature monitors and limiters, JUMO offers the user safety-relevant data and parameters for choosing the required components.

The lifetime of all devices with SIL 2 and SIL 3 compliance is 10 years.

The proof-check interval for devices that meet SIL 3 is two years, and for devices to SIL 2 as much as ten years.

In the case of SIL 2 devices, this means that there are no additional tests within their lifetime.

The single or dual channel devices are designed for use with Pt100 sensors or thermocouples and cover the temperature range 0 to 1600 °C.

These temperature probe versions are certified in conjunction with the temperature limiting devices.



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