

SIL Declaration of Conformity

MANUFACTURER DECLARATION

Product: **Type:** HART® Temperature Transmitter
 Name: PRetop 5335A/B/C/D
 PReTrans 6335A/B/C/D

Manufactured by: **PR electronics A/S**
 Lerbakken 10
 DK-8410 Rønde
 Denmark

PR electronics as a manufacturer declares that the PRetop 5335/PReTrans6335 together with the temperature sensor¹ is suitable for use in a safety-instrumented system up to a Safety Integrity Level of **SIL 2** if the appropriate safety instructions are observed.

The reliability data summarised in the following table are the results of a hardware assessment according to IEC61508 carried out on the temperature transmitters PRetop 5335/PReTrans 6335. The hardware assessment consists of an FMEDA done by Exida.

The PRetop 5335/PReTrans 6335 temperature transmitters are considered to be a Type B component with a hardware fault tolerance (HFT) of 0.

	PFDavg Tproof = 1 year	PFDavg Tproof = 5 years	SFF
5335/6335	7.68E-04	3.83E-03	67.5%
5335/6335 with TC ²	1.86E-03	9.30E-03	92%
5335/6335 with 4W RTD ²	8.54E-04	4.27E-03	92%

¹ For Tproof = 1 year

² Sensor in low-stress environment

Rønde, 16 November 2005



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B.KP1.17.01

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QUALITY SYSTEM AND ENVIRONMENTAL
MANAGEMENT SYSTEM
DS/EN ISO 9001
DS/EN ISO 14001