

SIL Declaration of Conformity MANUFACTURER DECLARATION

Product: **Type:** Universal Transmitter
 Name: PReasy 4114/4116

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

PR electronics as a manufacturer declares that the PReasy 4114/4116¹ are suitable for use in a safety-instrumented system up to a Safety Integrity Level of **SIL 2**² if the appropriate safety instructions are observed.

The reliability data summarized in the following table are the results of a hardware assessment according to IEC61508 carried out on the Universal Transmitters PReasy 4114/4116. The hardware assessment consists of an FMEDA done by Exida.

The PReasy 4114/4116 Universal Transmitters are considered to be a Type B component with a hardware fault tolerance (HFT) of 0.

	PFH ³ 1/h	PFDavg Tproof = 1 year	PFDavg Tproof = 5 years	SFF
PReasy 4114/4116	8.22E-08	3.60E-04	1.80E-03	91.20%
PReasy 4114/4116 with TC ⁴	3.32E-07	1.45E-03	7.27E-03	94%
PReasy 4114/4116 with 4W RTD ⁴	1.02E-07	4.46E-04	2.23E-03	96%

¹ From SN 060094001

² 4114/4116 and 4114/4116 with 4W RTD: For Tproof = 5 years

4114/4116 with TC: For Tproof = 1 year

³ Maximum demand rate: 1.5 h

⁴ Sensor in low-stress environment

Rønde, 23 January 2006



Peter Rasmussen
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