

## SIL DECLARATION OF CONFORMITY MANUFACTURER DECLARATION

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

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

PR electronics as a manufacturer declares that the 4114/4116<sup>1</sup> devices are suitable for use in a safety-instrumented system up to a Safety Integrity Level of SIL 2<sup>2</sup> 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 4114/4116 Universal Transmitters. The hardware assessment consists of an FMEDA done by Exida.

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

	PFH <sup>3</sup> 1/h	PFD <sub>AVG</sub> T[Proof] = 1 year	PFD <sub>AVG</sub> T[Proof] = 5 years	SFF
4114/4116	8.22E-08	3.60E-04	1.80E-03	91.20%
4114/4116 with TC <sup>4</sup>	3.32E-07	1.45E-03	7.27E-03	94%
4114/411 with 4W RTD <sup>4</sup>	1.02E-07	4.46E-04	2.23E-03	96%


<sup>1</sup> From SN 060094001

<sup>2</sup> 4114/4116 and 4114/4116 with 4W RTD: For T[Proof] = 5 years  
4114/4116 with TC: For T[Proof] = 1 year

<sup>3</sup> Maximum demand rate: 1.5 h

<sup>4</sup> Sensor in low-stress environment

Rønede, 6 November 2014



Stig Lindemann, CTO  
Manufacturer's signature

B.KP1.17.01