RoHS Compliance of Products

This is to certify that the product types listed in the enclosed table conform with the

Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011
on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS directive)
(last Amendment with Directive 2015/863/EU)

The listed product types do not contain mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), polybrominated diphenyl ethers (PBDE), bis(2-ethylhexyl) phthalate (DEHP), butyl benzyl phthalate (BBP), dibutyl phthalate (DBP) and diisobutyl phthalate (DIBP).
But the listed products can contain lead / a lead component which is explained as follows:

Lead (Pb) / lead components:
The sensor types can contain lead in form of lead oxide (PbO) which is combined with / fixed in the glass layers of the sensor element.
According to figure 7c-I of the annex of the directive 2011/65/EU the use of “lead in glass of ... electronic components ... .” is exempted from the requirements of Article 4(1) of the directive.

Under consideration of the explained exemption and under consideration of quantity limits for restricted materials the listed product types are in compliance with the EU directive 2011/65/EU.

The declaration is only valid for standard sensor elements. Any change of the listed product types like for example extension with other lead material and/or housing and/or insulation and/or other changes made by Heraeus Sensor Technology GmbH and/or made by the customer itself requires a new evaluation of the final sensor type / article for compliance with the RoHS directive.

Heraeus Sensor Technology GmbH

J. Diederichs
Quality Manager

Table of standard sensor elements

Type	Connection Material	RoHS exemption	Type	Connection Material	RoHS exemption
C 220	AgPd	**None**	**C 416**	AuPd	**7c-I**
C 420	AgPd	**7c-I**	**C 420**	NiPt	**7c-I**
HL 220	NiCr-Pt	**None**	**HM 220**	Pd alloy-Pt	**None**
HDA 420	Pt	**None**	**HD 421**	Pt	**None**
HA 420	Pt	**None**			
L 220	AgPd	**7c-I**	**L 410 ax**	AgPd	**7c-I**
L 416	AgPd	**7c-I**	**L 420**	AgPd	**7c-I**
L 540	AgPd	**7c-I**	**L 1020**	AgPd	**7c-I**
LN 222	NiAg	**None**			
M 213	NiPt	**7c-I**	**M 219**	NiPt	**7c-I**
M 220 / 222	NiPt	**7c-I**	**M 310**	NiPt	**7c-I**
M 416	NiPt	**7c-I**	**M 419**	NiPt	**7c-I**
M 422	NiPt	**7c-I**	**M 620**	NiPt	**7c-I**
M 1020	NiPt	**7c-I**			
MN 220 / 222	Ni	**None**	**MN 420 / 422**	Ni	**None**
MH 220	AuPd	**None**	**MH 416**	AuPd	**None**
MH 420	AuPd	**None**			
MR 828	NiPt	**7c-I**	**MR 845**	NiPt	**7c-I**
PCB 1325	Tinned Cu pads	**None**	**PCB 2225**	Tinned Cu pads	**None**
PCB 2230	Tinned Cu pads	**None**	**PCB 2236**	Tinned Cu pads	**None**
PCB 2240	Tinned Cu pads	**None**			
SMD-V 0603	Tinned edge metallization	**None**	**SMD-V 0805**	Tinned edge metallization	**None**
SMD-V 1206	Tinned edge metallization	**None**			
SMD 0603 FC	AgPt metallization	**None**	**SMD 0805 FC**	AgPt metallization	**None**
TO92	Sn plated Cu alloy	**7c-I**	**SOT 223**	Sn plated Cu alloy	**7c-I**