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YCQ1-DoC_EU-R2104

The EU Declaration of Conformity

Issued in accordance with:

- The Pressure Equipment Directive 2014/68/EU
- The Low Voltage Directive 2014/35/EU
- The Electromagnetic Compatibility Directive 2014/30/EU

The manufacturer's name and address:

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Section 1 - The Pressure Equipment Directive 2014/68/EU

Declaration:

Pressure Sensors

shown in the following tables, are classified "Pressure accessories" in the sense of the Pressure Equipment Directive 2014/68/EU, Article 2 point (5).

The Refrigerant proper to the Group I and II as defined in the articles 13 (1) (a) and 13 (1) (b) of Directive 2014/68/EU.

- a) Refrigerant of Group I: Refrigerant is classified as hazardous substance or mixture as defined in points (7) and (8) of Article 2 of Regulation (EC) No. 1272/2008.
- b) Refrigerant of Group II: Refrigerant cannot be classified as hazardous substance or mixture as defined in points (7) and (8) of Article 2 of Regulation (EC) No. 1272/2008.

Description of Products:

1. Pressure Transmitter - YCQB Series

SANHUA MODEL*	MODELS	PS (bar)	FLUID GROUP I		FLUID GROUP II	
			PED category	Module Annex III PED Directive 2014/68/EU	PED category	Module Annex III PED Directive 2014/68/EU
YCQB01Y XX	All Models	10	Art. 4.3	-	Art. 4.3	-
YCQB02Y XX	All Models	20	Art. 4.3	-	Art. 4.3	-
YCQB03Y XX	All Models	30	Art. 4.3	-	Art. 4.3	-
YCQB04Y XX	All Models	40	Art. 4.3	-	Art. 4.3	-
YCQB05Y XX	All Models	50	Art. 4.3	-	Art. 4.3	-

Table 1

2. Pressure Transmitter - YCQC Series

SANHUA MODEL*	MODELS	PS (bar)	FLUID GROUP I		FLUID GROUP II	
			PED category	Module Annex III PED Directive 2014/68/EU	PED category	Module Annex III PED Directive 2014/68/EU
YCQC01Y XX	All Models	10	Art. 4.3	-	Art. 4.3	-
YCQC02Y XX	All Models	20	Art. 4.3	-	Art. 4.3	-
YCQC03Y XX	All Models	30	Art. 4.3	-	Art. 4.3	-
YCQC04Y XX	All Models	40	Art. 4.3	-	Art. 4.3	-
YCQC05Y XX	All Models	50	Art. 4.3	-	Art. 4.3	-

Table 2

3. Pressure Transmitter - YCQB/C for R744 Series

SANHUA MODEL*	MODELS	PS (bar)	FLUID GROUP I		FLUID GROUP II	
			PED category	Module Annex III PED Directive 2014/68/EU	PED category	Module Annex III PED Directive 2014/68/EU
YCQB09L XX	All Models	90	NOT CERTIFIED	-	Art. 4.3	-
YCQB15L XX	All Models	150	NOT CERTIFIED	-	Art. 4.3	-
YCQC09L XX	All Models	90	NOT CERTIFIED	-	Art. 4.3	-
YCQC15L XX	All Models	150	NOT CERTIFIED	-	Art. 4.3	-

Table 3

Note:

* Y nomenclature position: "L" = models with solder connection; "H" models with thread connection

XX nomenclature position: internal identification code

** Standards temperature range; some models can have a different special temperature range

All the models listed in the table above classified as "Art. 4.3" aren't subjected to the Essential Safety Requirements set out in Annex I of Directive 2014/68/EU because their characteristics are below or equal to the limits fixed in Article 4 (1) (c) (i) & (ii) of the same Directive. As mentioned in the Directive all these products have a nominal size "DN" below or equal to:

- a) 25mm for refrigerants belonging to Group I
- b) 32mm for refrigerants belonging to Group II

Therefore, according to requirements of Article 4 (1) (c) them:

- Are designed and manufactured in accordance with a sound engineering practice in order to ensure safe use.
- Are accompanied by adequate instructions for use
- Bear markings to permit identification of the manufacturer
- Don't bear CE marking referred to in Article 18 and Article 19
- Are not accompanied by a "Declaration of Conformity" to Directive 2014/68/EU referred to in Annex IV

Covered by this declaration is in conformity with the following directives, standards or other normative documents, provided that the product is used in accordance with our instructions:

- EN 12284:2003 - Refrigerating systems and heat pumps. Valves. Requirements, testing and marking
- EN 378-2:2016 - Refrigerating systems and heat pumps. Safety and environmental requirements. Basic requirements, definitions, classification and selection criteria

Section 2 - The Low Voltage Directive 2014/35/EU

Declaration:

Pressure Sensors

have been certified for usage with flammable refrigerants by a third part notified body:

Automatic electrical controls for household and similar use – Part 1 : General requirements

EN 60730-1:2017-05 ; EN 60730-1:2016 ; EN 60730-1:2016/A1:2019 ; EN 60730-2-6:2016

- **With sub-clauses 7/8/9/10/11/12/13/18/19/20/21/27**

Additional test has been performed in order to allow the usage of the present electrical device with Flammable refrigerants as described in the EN-378-1/2012-08 Annex F section F.2.3

Household and similar electrical appliances – Safety

EN 60335-2-24:2019-11 ; EN 60335-2-24:2010/A1:2019

- **With sub-clauses 22.110**

Household and similar electrical appliances – Safety

EN 60335-2-89:2018-10; EN 60335-2-89:2010/A2:2017

- **With sub-clauses 22.109**

Household and similar electrical appliance – Safety

(Particular requirements for electrical heat pumps, air conditioner, dehumidifiers)

EN 60335-2-40/2014-01

EN 60335-2-40/2003 + A11/2004 + A12/2005 + A1/2006 + A2/2009 + A13/2012

- **With sub-clauses 22.116 [no electrical component, which could be a source of ignition in case of normal operation or in the event of a leak]**

- **With sub-clauses 22.117 and Annex BB**

Note:

The applicability of the Directive 2014/35/EU as mentioned in the Article 1 is limited to the models with voltage rating of between 50 and 1000 V for alternating current and between 75 and 1500 V for direct current.

All the products excluded by the Directive 2014/35/EU respects the following requirements:

- Are designed and manufactured in accordance with a sound engineering practice in order to ensure safe use.
- Are accompanied by adequate instructions for use
- Bear markings to permit identification of the manufacturer
- Don't bear CE marking referred to in Article 16 and Article 17
- Are not accompanied by a "Declaration of Conformity" to Directive 2014/35/EU referred to in Annex IV

Section 3 - The Electromagnetic Compatibility Directive 2014/30/EU

Declaration:

The Products specified by "Description" fulfill the requirements of above EU Directives and is in line with below mentioned EN standards. Unauthorized modifications will make this declaration invalid.

Description: 1. Pressure transmitter YCQB series

Applicable Standards for Testing

Test Item	Basic Standard	Result
Radiated Emissions	EN 55011:2009+A1:2010/CISPR11:2009+A1:2010	Complied
Conducted Emissions	EN 55011:2009+A1:2010/CISPR11:2009+A1:2010	Complied
Electrostatic discharge immunity test	EN 61000-4-2: 2009	Complied
Radiated, radio-frequency, electromagnetic, field Immunity	EN 61000-4-3:2006, +A1:2007, +A2:2010	Complied
Electrical fast transient/burst immunity	EN 61000-4-4: 2012	Complied
Immunity to conducted disturbances, induced by radio-frequency fields	EN 61000-4-6: 2014	Complied

Description: 2. Pressure transmitter YCQC series

Applicable Standards for Testing

Test Item	Basic Standard	Result
Electrostatic discharge immunity test	EN 61000-4-2: 2009	Complied
Testing and measurement techniques- Surge immunity test	EN 61000-4-5:2014	Complied
Electrical fast transient/burst immunity	EN 61000-4-4: 2012	Complied
Immunity to conducted disturbances, induced by radio-frequency fields	EN 61000-4-6: 2014	Complied
Radiated, radio-frequency, electromagnetic, field Immunity	EN 61000-4-3:2006, +A1:2007, +A2:2010	Complied

Responsible Person to issue the declaration of Conformity:	Date	Signature
Mr. Zhouyang Li	2021.5.27	

