



Exemption to CE Marking of Conax Technologies Temperature Sensors

- 1) The Low Voltage Directive, entitled “73/23/EEC: Council Directive of 22 July 1993 on the Approximation on the Laws of Electrical Equipment Designed for Use Within Certain Voltage Limits.”

This directive does not apply to Conax Technologies Temperature Sensors, as they do not operate in the specified range of 50-1000V AC or 75-1500V DC as stated in Article 1 of this Directive.

- 2) The Machinery Directive entitled “89/392/EEC: Council Directive of 14 June 1989 on the Approximation of the Laws of the Member States Relating to Machinery.”

The definition of machinery as stated in Directive 89/392/EEC, Article 1, Paragraph 2, “Machinery means an assembly of linked parts or components, at least one of which moves, with the appropriate actuators control and power circuits, etc., joined together for a specific application, in particular for the processing, treatment, moving or packaging of a material.” Since probes do not have any moving parts, they are not considered machines, this directive does not apply to CT Temperature Sensors.

- 3) The EMC Directive entitled “89/336/EEC: Council Directive of 3 May 1989 on the Approximation of the Laws of the Member States Relating to Electromagnetic Compatibility.”

The term “apparatus” as defined in Article 1.1 states, “All electrical and electronic appliances together with equipment and installations containing electrical and/or electronic components.”

Sometimes it is difficult to say whether a product is regarded as “apparatus” or if it is just component. Although components always fulfill a function within the apparatus in which they are incorporated, they do not always in themselves perform a direct function.

An example given in the “Guidelines on the Application of Council Directive 89/336/EEC for Approximation of the Laws of the Member States Relating to EMC,” helps to explain a component in a simplified manner. A cathode-ray tube performs a function within the visual display unit in which it is installed; but only the complete monitor supplies the user with the direct function sought, such that of the visual display. The cathode-ray tube perform no direct function and cannot be regarded as “apparatus”, but are components. This example would also define our thermocouples and RTDs as components, since they do not perform a “direct function.”

These types of components with no direct function are not considered as apparatus within the meaning of the EMC Directive, hence the EMC Directive does not apply to them. They must always to be incorporated into an apparatus in order to deliver the expected intended direct function.