

Guideline

1/25

CLAP

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Sensor

Safety accessory

Safety chain

Component

Directive references:

Article 1 § 2.1.3 - 97/23 EC

Article 1 § 2.1.4 - 97/23 EC

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Subject: Scope – Sensors used as part of a safety chain

Question: Are the sensors which are used as part of a safety system to protect pressure equipment covered by the PED?

Answer: A sensor alone does not meet the definition of a pressure accessory, as per Article 1 § 2.1.4 (see CLAP 72 - Guideline 1/8), nor the definition of a safety accessory, as per Article 1 § 2.1.3. Consequently, no CE marking (due to the PED) is to be put on the individual sensor.

The conformity assessment procedure and essential safety requirements of the directive relate to the complete safety system. The requirements to the sensor may be different depending upon the safety concept employed (for example redundancy or fail safe, see Annex I § 2.11.1).

NOTE : For the purpose of this guideline, sensor means "element of a measuring instrument or measuring chain that is directly affected by the measurand" as defined in the International Vocabulary of Basic and General Terms in Metrology, prepared by BIPM, OIML, ISO, IEC.

Modifications compared to the previous adopted version: Copy of guideline 1/25 (29/06/00) and editorial correction on 2004-09-16.