



Declaration of Conformity

Manufacturer: TECFLUID S.A.
Narcís Monturiol, 33
E 08960 Sant Just Desvern

Equipment: Flowmeters

Models: Series M21, AD

Declaration:

Having reviewed the essential health and safety requirements related to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, Tecfluid S.A. consider that this device is outside the scope of the Directive 2014/34/EU, given that it does not content any potential ignition sources. Therefore, it does not require certification by a notified body or marking in conformity with the ATEX Directive.

Special emphasis has been done in the compliance of EN 80079-36:2021 standard.

80079-36 5.1

Instructions for use of the equipment include the terms of service.

80079-36 5.2

Ignition hazard assessment.

Potential ignition source		Description of the measure(s) applied
Normal operation	Expected malfunction	
Hot surfaces		The equipment itself does not generate any increase of heat, the maximum temperature will depend on the operating conditions (process temperature)
Ingress of dust inside the enclosure		The equipment has an IP65 ingress protection to avoid ingress of dust into the enclosure
Static electricity		A warning label indicating risk of static electricity is placed
Impact of moving parts		Sparks cannot be generated since material is aluminium
Bearings		The bearings cannot generate an ignition
Mechanical resistance		Impact test is performed

80079-36 6.2.3

Maximum surface temperature. The devices themselves do not generate any heat.

80079-36 7.4.2

Classification of non-metallic parts.

There is a non-metallic part in the instrument. It is the front cover. It is made of a transparent plastic (polycarbonate resin, whose trademark is LEXAN® 143R) that allows viewing the needle position on the scale.

80079-36 7.4.3

Thermal endurance.

The temperature index of the equipment is 130 ° C.

80079-36 6.7

When the metal enclosure is made of aluminium, it is coated with an insulating paint whose thickness is always less than 2 mm.

Since the risk of ignition by electrostatic discharge when rubbing the polycarbonate front window cannot be avoided, the instruments include a warning label with the safety measures to be applied in service.

The same case applies to the entire enclosure when it is made of polypropylene.

80079-36 6.4.4 (60079-0 paragraph 8)

Lightweight materials.

The index of the metal magnesium in the equipment of aluminium enclosure is around 0.2%, well below the established limit of 7.5%.

80079-36 6.7.3

Earth connection for conducting parts.

The instruments have a safe earth connection for cases where this earth connection by means of the process connection cannot be ensured.

In Sant Just Desvern

Date: October 7, 2022

A handwritten signature in purple ink, appearing to be 'A. Barea', is centered on the page. The signature is fluid and cursive, with a large initial 'A' and a smaller 'B'.

Alberto Barea (Responsible for Ex Products)