Declaration of Conformity for CE/UKCA Marking

CE UKCA

Machinery Directive 2014/42/EU — *UK Regulation SI 2008 Nr. 1597*
Pressure Equipment Directive 2014/68/EU — *UK Regulation SI 2016 Nr. 1105*
EMC Directive 2014/30/EU — *UK Regulation SI 2016 Nr. 1091*

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We herewith declare that the ***LEVIFLOW®*** clamp-on flowmeters, in its various configurations as listed below, is in conformity with the above mentioned *European Directives* and *UK Statutory Instruments*. The pump system is thought to be used in hydraulic circuits of production equipment of the Semiconductor, Chemical and general machinery markets.

Part Name	***Description***
LFSC-xx	Flowsensors: LFSC-12 (0 - 10 lpm, rated for 4 bar without tubing limitation) Flowsensors: LFSC-22 (0 - 50 lpm, rated for 3.3 bar without tubing limitation)
LFC-1C-CS	Single-Channel Converter: 24V DC supply input

Machinery Directive 2006/42/EU – Machinery Regulation SI 2008 Nr. 1597

The machinery directive/regulation essentially has been followed by a risk analysis, according mitigation actions and a user manual for safe operation. For the design and testing the following standards are used as a guideline:

EN ISO 15494	Plastic piping system for industrial applications
ISO12100	Safety for machinery – principles for risk assessments: used for system risk analysis.

EMC Directive 2014/30/EU – EMC Regulation SI 2016 No. 1091:

The following standards of the *EMC* directive/regulation are tested and confirmed at a certified laboratory.

EN 61000-6-4	**Generic Emission standard for industrial environments**
EN 55011	Electromagnetic Disturbances
EN 61000-6-2	**Generic Immunity standard for industrial environments**
EN 61000-4-2	Electrostatic Discharge Immunity
EN 61000-4-3	Radiated, radio-frequency, electromagnetic field immunity
EN 61000-4-4	Electrical fast transient/burst immunity
EN 61000-4-5	Surge immunity
EN 61000-4-6	Immunity to conducted disturbances, induced by radio-frequency fields

Test Laboratory: BYTICS AG
EMV Labor, Technoparkstr. 1
CH-8005 Zurich, Switzerland
Swiss certification number = STS 404

Pressure Equipment Directive 2014/68/EU – Pressure Equipment Regulation SI 2016 No. 1105:

The *Pressure Equipment Directive 2014/68/EC* is used as guide line according to *Category I Modul A* (internal quality control). For maximum pressure validation the following standard is followed:

EN ISO 15494	Plastic piping system for industrial applications

It has to be noted that the maximum pressure for the clamp-on sensor has been tested without tubing limitations. For the pressure rating of the clamp-on sensor with the mounted tubing, the specification of the used flexible tubing material has to be consulted in order to avoid bursting effects not covered by the clamp-on sensor specifications.

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