

1 EU declaration of conformity / UK declaration of conformity

This declaration attests the compliance of the instrument with the standard specifications for electrical instruments and accessories.

The responsibility for issuing this declaration of conformity lies solely with the manufacturer.

1.1 Product validity

This declaration is valid for the following products or product versions:

- **947 Professional UV/VIS Detector Vario - SW**
- **947 Professional UV/VIS Detector Vario - MW**

The 947 Professional UV/VIS Detector Vario is an instrument for the photometric determination of light-absorbing substances in the UV/VIS range.

This declaration is valid for the spare parts for the products or product versions listed above:

- Deuterium lamp (UV) for 947 UV/VIS Detector Vario SW/MW (6.2804.110)
- Halogen lamp (VIS) for Professional UV/VIS Detector (6.2804.100)
- Flow-through cell, 10 mm, for UV/VIS instruments (6.2839.130)

1.2 Directives and regulations

1.2.1 EU directives

The object of the declaration described above is in conformity with the relevant European Union harmonization legislation:



- **2014/35/EU – Low Voltage Directive, LVD**
Directive 2014/35/EU of the European Parliament and of the Council of February 26, 2014 on the harmonization of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits; Official Journal of the EU L96, 29.03.2014, p. 357-374

1.3 Safety specifications

This instrument fulfills the following safety requirements:

Design and type testing

- **EN 61010-1: 2019**
Safety requirements for electrical equipment for measurement, control, and laboratory use
- **EN 60529: 2013 – degree of protection IP40**
Degrees of protection provided by enclosures (IP Code)
- **ISO 12100: 2010**
General principles for design - Risk assessment and risk reduction
- **EN 61140: 2016 – protection class I**
Protection against electric shock - Common aspects for installation and equipment

Testing in Production

Every instrument is routine-tested according to EN/IEC 61010-1 Appendix F in the production division:
Check of the protective conductor connection and the insulation from power circuits.

1.4 Electromagnetic compatibility (EMC)

Design and type testing

- **EN 61326-1: 2013**
Electrical equipment for measurement, control and laboratory use - General EMC requirements

1.4.1 Emission

Standards fulfilled

- EN 55011 / CISPR 11: 2020

1.4.2 Immunity

Standards fulfilled

- EN 61000-4-2: 2009
- EN 61000-4-3: 2010
- EN 61000-4-4: 2012
- EN 61000-4-5: 2017
- EN 61000-4-6: 2014
- EN 61000-4-11: 2020
- EN 61000-4-14: 2009
- EN 61000-4-28: 2009

1.5 Manufacturer

Metrohm AG, Ionenstrasse, CH-9100 Herisau/Switzerland

Metrohm AG holds the SQS certificate ISO 9001: 2015 for quality management systems with scope for the development, production, sale and service of instruments and accessories for titration, ion chromatography, spectroscopy and electrochemistry, including software solutions.

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