

1 EU declaration of conformity

This declaration attests the compliance of the instrument with the standard specifications for electrical instruments and accessories and with the standard specifications for safety and system validation of the manufacturing company.

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

1.1 Product validity

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

- **6.1116.000 – O₂-Lumitrode**

The O₂ Lumitrode is an optical sensor for measuring dissolved oxygen, i.e. the amount of dissolved oxygen molecules in an aqueous phase. The sensor works on the principle of luminescence quenching.

1.2 Directives

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



- **2014/35/EU – Low Voltage Directive, LVD**

Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation 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 March 2014, p. 357-374

- **2014/30/EU – EMC Directive, EMC**

Directive 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility; Official Journal of the EU L96, 29 March 2014, p. 79-106

- **2011/65/EU – Directive for certain hazardous substances, RoHS**

Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment; Official Journal of the EU L174, 1 July 2011, p. 88-110

- **2015/863/EU – Amendment Annex II RoHS**

Commission delegated directive (EU) 2015/863 of 31 March 2015 amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances; Official Journal of the EU L137, 4 June 2015, p. 10-12

- **2012/19/EU – Disposal and recycling of electrical and electronic equipment, WEEE**

Directive 2012/19/EU of the European Parliament and of the Council
of 4 July 2012 on waste electrical and electronic equipment (WEEE);
Official Journal of the EU L197, 24 July 2012, p. 38-71

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 III

Protection against electric shock - Common aspects for installation and equipment

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 61000-6-3: 2011
- EN 55011 / CISPR 11: 2017

1.4.2 Immunity

Standards fulfilled

- EN 61000-6-1: 2019
- EN 61000-4-2: 2009
- EN 61000-4-3: 2010
- EN 61000-4-4: 2012

1.5 Manufacturer

Metrohm AG, Ionenstrasse, CH-9100 Herisau/Switzerland

Metrohm AG holds the SQS certificate ISO 9001 – Quality management system for the development, production and sale of instruments and accessories for analyses.

Herisau, February 22, 2021



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