



**TYPE APPROVAL CERTIFICATE**  
**No. ELE482021CS/001**

**This is to certify** that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	<b>Conductivity Analyzer System</b>
<i>Type</i>	<b>FLXA21 Analyzer with ISC40S inductive conductivity sensor and integrated temperature sensor</b>
<i>Applicant</i>	<b>YOKOGAWA ITALIA S.R.L. VIA DELL'ASSUNTA 61 20834 NOVA MILANESE MB (MI) ITALY</b>
<i>Manufacturer</i>	<b>Yokogawa Electric Corporation</b>
<i>Place of manufacture</i>	<b>2-9-32, Nakacho, Musashino-shi 180-8750 Tokyo JAPAN</b>
<i>Reference standards</i>	<b>Rules for the Classification of Ships - Part C - Machinery, Systems and fire protection - Ch.3, Sect.6, Tab.1.</b>

*Issued in* .. **Genoa** .. on .. **January 10, 2022** .. *This Certificate is valid until* .. **January 10, 2027**

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**RINA Services S.p.A.**  
**Valerio Bonanni**

This certificate consists of this page and 1 enclosure

## TYPE APPROVAL CERTIFICATE

No. ELE482021CS/001

Enclosure - Page 1 of 1

### FLXA21 Analyzer with ISC40S inductive conductivity sensor and integrated temperature sensor

FLXA21 two - wire Analyzer with ISC40S inductive conductivity sensor for liquid, including temperature compensation functionality.

#### *Main features:*

**Touch screen operation**

**Sensor with self-diagnostic capabilities**

**Conductivity Measuring range:** 0 to 2000 mS/cm at 25°C reference temperature

**Conductivity Output range:** min. 100  $\mu$ S/cm ; max. 2000 mS/cm

**Temperature Measuring range:** -20 to 140 °C

**Conductivity Accuracy:** Linearity =  $\pm 0,4\%$  F.S. + 0.3  $\mu$ S/cm

Repeatability =  $\pm 0,4\%$  F.S. + 0.3  $\mu$ S/cm

**Temperature accuracy:**  $\pm 0,3$  °C

**Output signal :** two-wire isolated 4-20 mA + HART

**Power supply:** 24Vdc

This product comply with Environmental Category EC 31 according to:

Part C, Ch.2, Sec. 1, Para. 3.26 of RINA Rules ed. 2016

#### **EC - Type Examination**

**Equipment and protective systems intended for use in potentially explosive atmospheres – Directive 94/9/EC and 2014/34/EU**

**Equipment:** Two wire analyzer **model FLXA21** Series

**Certification Authority:** DEKRA Certification B.V. **EC- type Examination Certificate:** DEKRA 11ATEX0109 X issue n. 4

**Marking:** II 1 G Ex ia IIC T4 Ga

**Safety Requirements:** EN 60079-0: 2012+A11:2013 , EN 60079-11:2012

**Equipment:** Inductive Conductivity Sensor **model ISC40S** Series

**Certification Authority:** DEKRA Certification B.V. **EC- type Examination Certificate:** DEKRA 11ATEX0063 X issue n. 2

**Marking:** II 1 G Ex ia IIC T4...T6 Ga

**Safety Requirements:** EN 60079-0: 2018, EN 60079-11: 2012

#### **INTERNATIONAL ELECTROTECHNICAL COMMISSION**

**IEC Certification Scheme for Explosive Atmospheres**

**Equipment:** Two wire Analyzer **Model FLXA21**

**Certification Authority:** DEKRA Certification B.V. **IECEX Certificate of Conformity** IECEX DEK 11.0044X issue n. 0 to 9

**Marking:** Ex ia IIC T4 Ga

**Safety Requirements:** IEC 60079-0 :2011 ed. 6.0, IEC 60079-11: 2011 ed. 6.0

**Equipment:** Inductive Conductivity Sensor **Model ISC40S** Series

**Certification Authority:** DEKRA Certification B.V. **IECEX Certificate of Conformity** IECEX DEK 11.0028X issue n. 0 to 1

**Marking:** Ex ia IIC T4...T6 Ga

**Safety Requirements:** IEC 60079-0: 2017 ed. 7, IEC 60079-11: 2011 ed. 6

#### **Technical specifications:**

General Specification \_FLXA21 : GS 12A01A02-01E (18<sup>th</sup> Edition)

General Specification \_ISC40G (S) : GS 12D8J2-E-E (21<sup>st</sup> Edition)

#### **Test reports:**

TesLab report n. 162025F (2016.06.21)

Nemko report n. 451782-1 TRFEMC (2021.11.09)

#### **General remarks:**

Installation and use to be in accordance with the manufacturer instruction

**Genoa January 10, 2022**