



COSTRUZIONI ELETTRONICHE INDUSTRIALI - AUTOMATISMI

Zona Industriale Vicinaggio 54/G-56 - 52041 AREZZO - ITALY

Tel. +39 0575 4181 - Fax. +39 0575 418290

email: qa-detectors@ceia-spa.com - Web site: www.ceia.net

HIGH QUALIFIED EXTERNAL LABORATORY

Recognized by the Italian Ministry of Universities and Scientific Research

Law n. 46/1982 and Ministerial Decree dated 22/12/1994

Certificate of Calibration

Sample Under Test

Description: Test Sample Ø 0.35mm Non-ferrous
Metallic Sample Shape: Sphere
Metallic Sample Diameter: 0.35mm
Metallic Sample Composition: 70%Cu 30%Zn Typical Non-ferrous
CEIA Part Nr.: 62209
Serial Number: 21816112585
Food Contact Compliance: Holder:
US-FDA Title 21 CFR 177.2470 and 178.3297
EU Regulations: (EC) No 1935/2004, (EU) No 10/2011
Resin:
US-FDA Title 21 CFR 175.300, 176.170 and 175.105
EU Regulations: (EC) No 1935/2004, (EU) No 10/2011, (EC) 1895/2005

Calibration Summary

Certificate Nr.: C/21816112585_1 Calibration Type: 1ST Calibration
Calibration Date: 2018-10-17 Calibration Result: PASS
Temperature during calib.: 23 ± 7 °C Calibrated by: Stefano Fiorenzoni
Humidity during calibration: 40 - 75 % RH Calib. Procedure: IO-MDI-ML4-0001

We certify that the above mentioned Reference Sample has been tested and its Electromagnetic Specifications (conductivity and permeability), at the measured frequency, correspond to the CEIA Reference Sample S/N: 21716106842 (tolerance: +/- 1,5 dB). The calibration instruction applied for the sample verification is in accordance with CEIA Procedures and ISO 9001 Standard, so as to grant its traceability.

CEIA Quality System is certified compliant with UNI EN ISO 9001 Standard (CSQ certificate: 9115.CE13).

Production and Test Dept.
Person in charge

Stefano Fiorenzoni

Quality Assurance
Person in charge

Andrea Sinatti

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Certificate of Calibration

Sample Under Test

Description: Test Sample Blank
Metallic Sample Shape: Sphere
Metallic Sample Diameter: 0mm
Metallic Sample Composition: - Blank
CEIA Part Nr.: 62243
Serial Number: 21816113772
Food Contact Compliance: Holder:
US-FDA Title 21 CFR 177.2470 and 178.3297
EU Regulations: (EC) No 1935/2004, (EU) No 10/2011
Resin:
US-FDA Title 21 CFR 175.300, 176.170 and 175.105
EU Regulations: (EC) No 1935/2004, (EU) No 10/2011, (EC) 1895/2005

Calibration Summary

Certificate Nr.:	C/21816113772_1	Calibration Type:	1 ST Calibration
Calibration Date:	2018-12-20	Calibration Result:	PASS
Temperature during calib.:	23 ± 7 °C	Calibrated by:	Stefano Fiorenzoni
Humidity during calibration:	40 - 75 % RH	Calib. Procedure:	IO-MDI-ML4-0001

We certify that the above mentioned Reference Sample has been tested and its Electromagnetic Specifications (conductivity and permeability), at the measured frequency, correspond to the CEIA Reference Sample S/N: 21316109379 (tolerance: +/- 1,5 dB). The calibration instruction applied for the sample verification is in accordance with CEIA Procedures and ISO 9001 Standard, so as to grant its traceability.

CEIA Quality System is certified compliant with UNI EN ISO 9001 Standard (CSQ certificate: 9115.CE13).

Production and Test Dept.
Person in charge

Stefano Fiorenzoni

Quality Assurance
Person in charge

Andrea Sinatti

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Certificate of Calibration

Sample Under Test

Description: Test Sample Ø 0.7mm Non-ferrous
Metallic Sample Shape: Sphere
Metallic Sample Diameter: 0.7mm
Metallic Sample Composition: 93%Cu 6.6%Sn 0.03%P Non-ferrous
CEIA Part Nr.: 62213
Serial Number: 21516120102
Food Contact Compliance: Holder: FDA Title 21 CFR 177.2470 and 178.3297
Resin: FDA Title 21 CFR 175.300, 176.170 and 175.105

Calibration Summary

Certificate Nr.: C/21516120102_1 Calibration Type: 1ST Calibration
Calibration Date: 2016-03-22 Calibration Result: PASS
Temperature during calib.: 23 ± 7 °C Calibrated by: Stefano Fiorenzoni
Humidity during calibration: 40 - 75 % RH Calib. Procedure: IO-MDI-ML4-0001

We certify that the above mentioned Reference Sample has been tested and its Electromagnetic Specifications (conductivity and permeability), at the measured frequency, correspond to the CEIA Reference Sample S/N: 21316115085 (tolerance: +/- 1,5 dB). The calibration instruction applied for the sample verification is in accordance with the CEIA Procedures and ISO 9001 Standard, so as to grant its traceability.

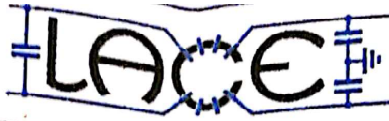
CEIA Quality System is certified compliant with UNI EN ISO 9001:2008 Standard (CSQ certificate: 9115.CE13).

Production and Test Dept.
Person in charge

Stefano Fiorenzoni

Quality Assurance
Person in charge

Andrea Sinatti




**Sez. LACE – ELECTROMAGNETIC COMPATIBILITY
AND TESTING LABORATORY**

Zona Industriale Vicinomagno 52041 AREZZO – ITALY
Tel. +39 0575 4181 - Fax. +39 0575 418290 - EMail: info@emc-lace.com
Web site: www.emc-lace.com

HIGH QUALIFIED EXTERNAL LABORATORY
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Law n. 46/1982 and Ministerial Decree dated 22/12/1994

Certificate of Calibration

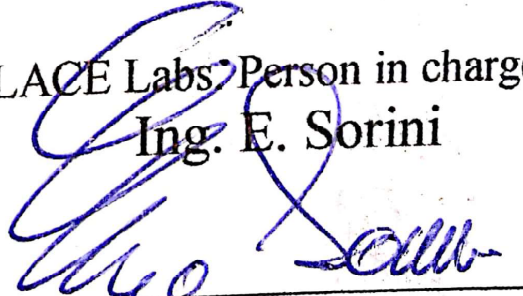
Sample Under Test

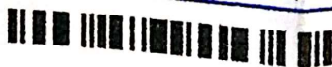
Description:	Reference Sample for Metal Detectors
Shape:	Sphere
Diameter:	0,5 mm
Composition:	70% Cu 30% Zn (non ferrous)
Serial Number:	21516109522 

Calibration Summary

Certificate Nr.: C/21516109522	Calibration Result: PASS
Calibration Date: 2015-05-15	Calibrated by: Ing. E. Sorini
Temperature during calib.: 23±5°C	Calib. Procedure: IO-EMC-EMC-0003
Humidity during calibration: 60 ±10%	

We certify that the above mentioned Reference Sample has been tested and its Electromagnetic Specifications (conductivity and permeability), at the measured frequency, correspond to the LACE Reference Sample S/N: 21316114965 (tolerance: +/- 1,5 dB). The calibration instruction applied for the sample verification is in accordance with the LACE Procedures and ISO 9001 Standard, so as to grant its traceability. The Laboratory Quality System is certified compliant with UNI EN ISO 9001:2008 Standard (CSQ nr: 9115.CEI3).

LACE Labs Person in charge
Ing. E. Sorini






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Certificate of Calibration

Sample Under Test

Description: Test Sample Ø 0.4mm Non-ferrous
Metallic Sample Shape: Sphere
Metallic Sample Diameter: 0.4mm
Metallic Sample Composition: 70%Cu 30%Zn Non-ferrous
CEIA Part Nr.: 62210
Serial Number: 21616111713
Food Contact Compliance: Holder: FDA Title 21 CFR 177.2470 and 178.3297
Resin: FDA Title 21 CFR 175.300, 176.170 and 175.105

Calibration Summary

Certificate Nr.: C/21616111713_1 Calibration Type: 1ST Calibration
Calibration Date: 2016-09-08 Calibration Result: PASS
Temperature during calib.: 23 ± 7 °C Calibrated by: Stefano Fiorenzoni
Humidity during calibration: 40 - 75 % RH Calib. Procedure: IO-MDI-ML4-0001

We certify that the above mentioned Reference Sample has been tested and its Electromagnetic Specifications (conductivity and permeability), at the measured frequency, correspond to the CEIA Reference Sample S/N: 21316114976 (tolerance: +/- 1,5 dB). The calibration instruction applied for the sample verification is in accordance with the CEIA Procedures and ISO 9001 Standard, so as to grant its traceability.

CEIA Quality System is certified compliant with UNI EN ISO 9001:2008 Standard (CSQ certificate: 9115.CE13).

Production and Test Dept.
Person in charge
Stefano Fiorenzoni

Quality Assurance
Person in charge
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Certificate of Calibration

Sample Under Test

Description: Test Sample Ø 0.3mm Non-ferrous
Metallic Sample Shape: Sphere
Metallic Sample Diameter: 0.3mm
Metallic Sample Composition: 70%Cu 30%Zn Typical Non-ferrous
CEIA Part Nr.: 62208
Serial Number: 21816107396
Food Contact Compliance: Holder:
US-FDA Title 21 CFR 177.2470 and 178.3297
EU Regulations: (EC) No 1935/2004, (EU) No 10/2011
Resin:
US-FDA Title 21 CFR 175.300, 176.170 and 175.105
EU Regulations: (EC) No 1935/2004, (EU) No 10/2011, (EC) 1895/2005

Calibration Summary

Certificate Nr.: C/21816107396_1 Calibration Type: 1ST Calibration
Calibration Date: 2019-02-06 Calibration Result: PASS
Temperature during calib.: 23 ± 7 °C Calibrated by: Stefano Fiorenzoni
Humidity during calibration: 40 - 75 % RH Calib. Procedure: IO-MDI-ML4-0001

We certify that the above mentioned Reference Sample has been tested and its Electromagnetic Specifications (conductivity and permeability), at the measured frequency, correspond to the CEIA Reference Sample S/N: 21316113739 (tolerance: +/- 1,5 dB). The calibration instruction applied for the sample verification is in accordance with CEIA Procedures and ISO 9001 Standard, so as to grant its traceability.

CEIA Quality System is certified compliant with UNI EN ISO 9001 Standard (CSQ certificate: 9115.CE13).

Production and Test Dept.
Person in charge

Stefano Fiorenzoni

Quality Assurance
Person in charge

Andrea Sinatti

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Certificate of Calibration

Sample Under Test

Description: Test Sample Ø 0.3mm Ferrous
Metallic Sample Shape: Sphere
Metallic Sample Diameter: 0.3mm
Metallic Sample Composition: AISIE52100 UNI100C6 Ferrous
CEIA Part Nr.: 62222
Serial Number: 21816115963
Food Contact Compliance: Holder:
US-FDA Title 21 CFR 177.2470 and 178.3297
EU Regulations: (EC) No 1935/2004, (EU) No 10/2011
Resin:
US-FDA Title 21 CFR 175.300, 176.170 and 175.105
EU Regulations: (EC) No 1935/2004, (EU) No 10/2011, (EC) 1895/2005

Calibration Summary

Certificate Nr.: C/21816115963_1 Calibration Type: 1ST Calibration
Calibration Date: 2019-03-07 Calibration Result: PASS
Temperature during calib.: 23 ± 7 °C Calibrated by: Stefano Fiorenzoni
Humidity during calibration: 40 - 75 % RH Calib. Procedure: IO-MDI-ML4-0001

We certify that the above mentioned Reference Sample has been tested and its Electromagnetic Specifications (conductivity and permeability), at the measured frequency, correspond to the CEIA Reference Sample S/N: 21316109367 (tolerance: +/- 1,5 dB). The dimensions and chemical composition of the metallic reference sample are certified at source by the manufacturer, according to applicable Standards. The calibration instruction applied for the sample verification is in accordance with CEIA Procedures and ISO 9001 Standard, so as to grant its traceability. CEIA Quality System is certified compliant with UNI EN ISO 9001 Standard (CSQ Certificate: 9115.CEI3).

Production and Test Dept.

Person in charge

Stefano Fiorenzoni

Quality Assurance

Person in charge

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Certificate of Calibration

Sample Under Test

Description: Test Sample Ø 0.4mm Ferrous
Metallic Sample Shape: Sphere
Metallic Sample Diameter: 0.4mm
Metallic Sample Composition: AISIE52100 UNI100C6 Ferrous
CEIA Part Nr.: 62223
Serial Number: 21616111422
Food Contact Compliance: Holder: FDA Title 21 CFR 177.2470 and 178.3297
Resin: FDA Title 21 CFR 175.300, 176.170 and 175.105

Calibration Summary

Certificate Nr.: C/21616111422_1 Calibration Type: 1ST Calibration
Calibration Date: 2016-07-25 Calibration Result: PASS
Temperature during calib.: 23 ± 7 °C Calibrated by: Stefano Fiorenzoni
Humidity during calibration: 40 - 75 % RH Calib. Procedure: IO-MDI-ML4-0001

We certify that the above mentioned Reference Sample has been tested and its Electromagnetic Specifications (conductivity and permeability), at the measured frequency, correspond to the CEIA Reference Sample S/N: 21316115095 (tolerance: +/- 1,5 dB). The calibration instruction applied for the sample verification is in accordance with the CEIA Procedures and ISO 9001 Standard, so as to grant its traceability.

CEIA Quality System is certified compliant with UNI EN ISO 9001:2008 Standard (CSQ certificate: 9115.CE13).

Production and Test Dept.
Person in charge
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Certificate of Calibration

Sample Under Test

Description: Test Sample Ø 0.8mm Ferrous
Metallic Sample Shape: Sphere
Metallic Sample Diameter: 0.8mm
Metallic Sample Composition: AISI420 Ferrous
CEIA Part Nr.: 62227
Serial Number: 21516120202
Food Contact Compliance: Holder: FDA Title 21 CFR 177.2470 and 178.3297
Resin: FDA Title 21 CFR 175.300, 176.170 and 175.105

Calibration Summary

Certificate Nr.: C/21516120202_1 Calibration Type: 1ST Calibration
Calibration Date: 2016-03-23 Calibration Result: PASS
Temperature during calib.: 23 ± 7 °C Calibrated by: Stefano Fiorenzoni
Humidity during calibration: 40 - 75 % RH Calib. Procedure: IO-MDI-ML4-0001

We certify that the above mentioned Reference Sample has been tested and its Electromagnetic Specifications (conductivity and permeability), at the measured frequency, correspond to the CEIA Reference Sample S/N: 21316114507 (tolerance: +/- 1,5 dB). The calibration instruction applied for the sample verification is in accordance with the CEIA Procedures and ISO 9001 Standard, so as to grant its traceability.

CEIA Quality System is certified compliant with UNI EN ISO 9001:2008 Standard (CSQ certificate: 9115.CE13).

Production and Test Dept.
Person in charge
Stefano Fiorenzoni

Quality Assurance
Person in charge
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Certificate of Calibration

Sample Under Test

Description: Test Sample Ø 0.5mm Ferrous
Metallic Sample Shape: Sphere
Metallic Sample Diameter: 0.5mm
Metallic Sample Composition: AISI420 Ferrous
CEIA Part Nr.: 62224
Serial Number: 21616111526
Food Contact Compliance: Holder: FDA Title 21 CFR 177.2470 and 178.3297
Resin: FDA Title 21 CFR 175.300, 176.170 and 175.105

Calibration Summary

Certificate Nr.: C/21616111526_1 Calibration Type: 1ST Calibration
Calibration Date: 2017-06-07 Calibration Result: PASS
Temperature during calib.: 23 ± 7 °C Calibrated by: Stefano Fiorenzoni
Humidity during calibration: 40 - 75 % RH Calib. Procedure: IO-MDI-ML4-0001

We certify that the above mentioned Reference Sample has been tested and its Electromagnetic Specifications (conductivity and permeability), at the measured frequency, correspond to the CEIA Reference Sample S/N: 21316115125 (tolerance: +/- 1,5 dB). The calibration instruction applied for the sample verification is in accordance with the CEIA Procedures and ISO 9001 Standard, so as to grant its traceability.

CEIA Quality System is certified compliant with UNI EN ISO 9001:2008 Standard (CSQ certificate: 9115.CE13).

Production and Test Dept.
Person in charge
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Certificate of Calibration

Sample Under Test

Description: Test Sample Ø 0.25mm Ferrous
Metallic Sample Shape: Sphere
Metallic Sample Diameter: 0.25mm
Metallic Sample Composition: AISIE52100 UNI100C6 Ferrous
CEIA Part Nr.: 62221
Serial Number: 21816115721
Food Contact Compliance: Holder:
US-FDA Title 21 CFR 177.2470 and 178.3297
EU Regulations: (EC) No 1935/2004, (EU) No 10/2011
Resin:
US-FDA Title 21 CFR 175.300, 176.170 and 175.105
EU Regulations: (EC) No 1935/2004, (EU) No 10/2011, (EC) 1895/2005

Calibration Summary

Certificate Nr.: C/21816115721_1 Calibration Type: 1ST Calibration
Calibration Date: 2019-02-06 Calibration Result: PASS
Temperature during calib.: 23 ± 7 °C Calibrated by: Stefano Fiorenzoni
Humidity during calibration: 40 - 75 % RH Calib. Procedure: IO-MDI-ML4-0001

We certify that the above mentioned Reference Sample has been tested and its Electromagnetic Specifications (conductivity and permeability), at the measured frequency, correspond to the CEIA Reference Sample S/N: 21316113450 (tolerance: +/- 1,5 dB). The calibration instruction applied for the sample verification is in accordance with CEIA Procedures and ISO 9001 Standard, so as to grant its traceability.

CEIA Quality System is certified compliant with UNI EN ISO 9001 Standard (CSQ certificate: 9115.CE13).

Production and Test Dept.
Person in charge

Stefano Fiorenzoni

Quality Assurance
Person in charge

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Certificate of Calibration

Sample Under Test

Description: Test Sample Ø 0.8mm Stainless-Steel
Metallic Sample Shape: Sphere
Metallic Sample Diameter: 0.8mm
Metallic Sample Composition: AISI316 (non-magnetic) Stainless-steel
CEIA Part Nr.: 62237
Serial Number: 21516109003
Food Contact Compliance: Holder: FDA Title 21 CFR 177.2470 and 178.3297
Resin: FDA Title 21 CFR 175.300, 176.170 and 175.105

Calibration Summary

Certificate Nr.:	C/21516109003_1	Calibration Type:	1 ST Calibration
Calibration Date:	2016-08-30	Calibration Result:	PASS
Temperature during calib.:	23 ± 7 °C	Calibrated by:	Stefano Fiorenzoni
Humidity during calibration:	40 - 75 % RH	Calib. Procedure:	IO-MDI-ML4-0001

We certify that the above mentioned Reference Sample has been tested and its Electromagnetic Specifications (conductivity and permeability), at the measured frequency, correspond to the CEIA Reference Sample S/N: 21316115250 (tolerance: +/- 1,5 dB). The calibration instruction applied for the sample verification is in accordance with the CEIA Procedures and ISO 9001 Standard, so as to grant its traceability.

CEIA Quality System is certified compliant with UNI EN ISO 9001:2008 Standard (CSQ certificate: 9115.CE13).

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Certificate of Calibration

Sample Under Test

Description: Test Sample Ø 0.5mm Stainless-Steel
Metallic Sample Shape: Sphere
Metallic Sample Diameter: 0.5mm
Metallic Sample Composition: AISI316 (non-magnetic) Stainless-steel
CEIA Part Nr.: 62234
Serial Number: 21816116158
Food Contact Compliance: Holder:
US-FDA Title 21 CFR 177.2470 and 178.3297
EU Regulations: (EC) No 1935/2004, (EU) No 10/2011
Resin:
US-FDA Title 21 CFR 175.300, 176.170 and 175.105
EU Regulations: (EC) No 1935/2004, (EU) No 10/2011, (EC) 1895/2005

Calibration Summary

Certificate Nr.: C/21816116158_1 Calibration Type: 1ST Calibration
Calibration Date: 2018-12-20 Calibration Result: PASS
Temperature during calib.: 23 ± 7 °C Calibrated by: Stefano Fiorenzoni
Humidity during calibration: 40 - 75 % RH Calib. Procedure: IO-MDI-ML4-0001

We certify that the above mentioned Reference Sample has been tested and its Electromagnetic Specifications (conductivity and permeability), at the measured frequency, correspond to the CEIA Reference Sample S/N: 21316109361 (tolerance: +/- 1,5 dB). The calibration instruction applied for the sample verification is in accordance with CEIA Procedures and ISO 9001 Standard, so as to grant its traceability.

CEIA Quality System is certified compliant with UNI EN ISO 9001 Standard (CSQ certificate: 9115.CE13).

Production and Test Dept.
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Certificate of Calibration

Sample Under Test

Description: Test Sample Ø 0.4mm Stainless-Steel
Metallic Sample Shape: Sphere
Metallic Sample Diameter: 0.4mm
Metallic Sample Composition: AISI316 (non-magnetic) Stainless-steel
CEIA Part Nr.: 62233
Serial Number: 21816114241
Food Contact Compliance: Holder:
US-FDA Title 21 CFR 177.2470 and 178.3297
EU Regulations: (EC) No 1935/2004, (EU) No 10/2011
Resin:
US-FDA Title 21 CFR 175.300, 176.170 and 175.105
EU Regulations: (EC) No 1935/2004, (EU) No 10/2011, (EC) 1895/2005

Calibration Summary

Certificate Nr.:	C/21816114241_1	Calibration Type:	1 ST Calibration
Calibration Date:	2018-12-20	Calibration Result:	PASS
Temperature during calib.:	23 ± 7 °C	Calibrated by:	Stefano Fiorenzoni
Humidity during calibration:	40 - 75 % RH	Calib. Procedure:	IO-MDI-ML4-0001

We certify that the above mentioned Reference Sample has been tested and its Electromagnetic Specifications (conductivity and permeability), at the measured frequency, correspond to the CEIA Reference Sample S/N: 21316113654 (tolerance: +/- 1,5 dB). The calibration instruction applied for the sample verification is in accordance with CEIA Procedures and ISO 9001 Standard, so as to grant its traceability.

CEIA Quality System is certified compliant with UNI EN ISO 9001 Standard (CSQ certificate: 9115.CE13).

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