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CERTIFICATO N. 9105.AE2S
CERTIFICATE N.

SI CERTIFICA CHE IL SISTEMA QUALITA' DI
 WE HEREBY CERTIFY THAT THE QUALITY SYSTEM OPERATED BY

AE2 SRL

VIA GUIDO ROSSA 14 - 20845 SOVICO (MB)

UNITA' OPERATIVE
 OPERATIVE UNITS

VIA GUIDO ROSSA 14 - 20845 SOVICO (MB)

E' CONFORME ALLA NORMA
 IS IN COMPLIANCE WITH THE STANDARD

ISO 9001:2008

PER LE SEGUENTI ATTIVITA'
 FOR THE FOLLOWING ACTIVITIES

Progettazione, produzione di trasformatori per bassa tensione e commercializzazione di strumenti analogici di misura elettrica
Design and production of low voltage current transformers (CT) and voltage transformers (VT) for industrial sector. Trading of electrical measurement instruments

Riferirsi al manuale della qualità per l'applicabilità dei requisiti della norma ISO 9001:2008
Refer to quality manual for details of applications to ISO 9001:2008 requirements

IL PRESENTE CERTIFICATO E' SOGGETTO AL RISPETTO DEL
 REGOLAMENTO PER LA CERTIFICAZIONE DEI SISTEMI DI GESTIONE

THE USE AND THE VALIDITY OF THE CERTIFICATE SHALL SATISFY THE
 REQUIREMENTS OF THE RULES FOR CERTIFICATION OF MANAGEMENT SYSTEMS

DATE:	PRIMA CERTIFICAZIONE FIRST CERTIFICATION	EMISSIONE CORRENTE CURRENT ISSUE	SCADENZA EXPIRY
	2014-11-04	2014-11-04	2017-11-03

IMQ S.p.A. - VIA QUINTILIANO, 43 - 20138 MILANO ITALY

CISQ is a member of



IQNet, the association of the world's first class certification bodies, is the largest provider of management System Certification in the world. IQNet is composed of more than 30 bodies and counts over 150 subsidiaries all over the globe.



IAF: 19

SGQ N°005A, SGA N°006D, SCR N°005F
 SSI N°003G, FSM N°007I, SGE N°006M
 EMAS N°003P, GHG N°011O, FRD N°005B
 PRS N°005C, ISP N°005E, LAB N°012I
 LAT N°02I
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 Signatory of EA, IAF and ILAC Mutual Recognition Agreements

La validità del certificato è subordinata a sorveglianza annuale e riesame completo del Sistema di Gestione con periodicità triennale
 The validity of the certificate is submitted to annual audit and a reassessment of the entire Management System within three years

CISQ è la Federazione Italiana di Organismi di Certificazione dei sistemi di gestione aziendale.

CISQ is the Italian Federation of management system Certification Bodies.



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THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

IQNet and its partner
CISQ/IMQ-CSQ
hereby certify that the organization

AE2 SRL

VIA GUIDO ROSSA 14 - 20845 SOVICO (MB)

for the following field of activities

*Design and production of low voltage current transformers (CT) and voltage transformers (VT) for industrial sector. Trading of electrical measurement instruments
Refer to quality manual for details of applications to ISO 9001:2008 requirements*

has implemented and maintains a

Quality Management System

which fulfills the requirements of the following standard

ISO 9001:2008

Issued on: 2014 - 11 - 04

Expiry date: 2017 - 11 - 03

Registration Number: IT - 96956

The status of validity of the certificate can be verified at <http://www.cisq.com> or by e-mail to fedcisq@cisq.com



Michael Drechsel

President of IQNET



Ing. Claudio Provetti

President of CISQ

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Electric & Electronic equipments

DECLARATION OF CONFORMITY

AE2 srl

(nome)

Via Guido Rossa, 14 - 20845 Sovico (MB) - ITALY

(indirizzo)

declares under own responsibility that the products:

Current Transformer

(name, type of model, lot, batch or serial number, possibly sources and numbers of items)

to which this declaration relates complies with the following standards

CEI EN 61869-1 2009-09
 CEI EN 61869-2 2012-11
 For which the Ith is: 40Ipn for 1second and Idyn is: 2,5 Ith for 1second.
 Maximum service voltage for insulation is: 0,72 kV.
 Maximum testing voltage is: 3kV at 50 Hz for 1 minute.

(title and/or number and date of issue of the standard (s))

following the provisions of CEE Directives

E.M.C.2014/30/UE L.V.D. 2014/35/UE

Routine Tests:

- Verification of terminals markings (see 7.3.6)
- Power-frequency tests on primary windings (see 7.3.1)
- Power-frequency tests on secondary windings (see 7.3.4)
- Over voltage inter - turn tests (see 7.3.204 procedure A)
- Tests of accuracy (see 7.3.5)

In conformity with IEC 61869-1 - 61869-2

- Are manufactured in Italy

AE2 s.r.l.
 Stefano Merio
 Quality Manager

Sovico (MB) 23 rd, August 2016

(place and date of issue)

(timbro, nome e firma della persona autorizzata)

AE2 srl - Via Guido Rossa, 14 - 20845 SOVICO (MB) - ITALY Tel. +39 039 2012676 - Fax +39 039 8900061 E-mail: info@ae2.it - www.ae2.it



Electric & Electronic equipments

DECLARATION OF CONFORMITY

AE2 srl

(nome)

Via Guido Rossa, 14 - 20845 Sovico (MB) - ITALY

(indirizzo)

declares under own responsibility that the products:

Voltage Transformer

(name, type of model, lot, batch or serial number, possibly sources and numbers of items)

to which this declaration relates complies with the following standards

CEI EN 61869-1 2009-09
 CEI EN 61869-3 2011-07
 Maximum service voltage for insulation is: 0,72 kV.
 Maximum testing voltage is: 3kV at 50 Hz for 1 minute.
 Umax=1,2 Un

(title and/or number and date of issue of the standard (s))

following the provisions of CEE Directives

E.M.C.2014/30/UE L.V.D. 2014/35/UE

Routine Tests:

- Verification of terminals markings (see 7.3.6)
- Power-frequency tests on primary windings (see 7.3.1)
- Power-frequency tests on secondary windings (see 7.3.4)
- Over voltage inter - turn tests (see 7.3.204 procedure A)
- Tests of accuracy (see 7.3.5)

In conformity with IEC 61869-1 - 61869-3

- Are manufactured in Italy

AE2 s.r.l.
 Stefano Merio
 Quality Manager

Sovico (MB) 23 rd, August 2016

(place and date of issue)

(timbro, nome e firma della persona autorizzata)

AE2 srl - Via Guido Rossa, 14 - 20845 SOVICO (MB) - ITALY Tel. +39 039 2012676 - Fax +39 039 8900061 E-mail: info@ae2.it - www.ae2.it

Esempi di Test Report

	CERTIFICATION TEST REPORT		
	CURRENT TRANSFORMER		
Serial N. 3014-A02586	Model TM3-400A5-0.5-3VA		
Date 25/07/2014	Operator Molteni Gabriele	Customer	Order N.

Page 1 of 2

Summary:

Freq.: 50 Hz	CosPhi: 0.8	Test Voltage: 0,72/3 kV
Coil S1-S2	Core 1	Ratio 400/5
		Burden 3 VA
		Class 0,5

Test equipments:

Description	Type	Serial N.	Manufacturer	Certificate N.
Sample CT	TAKT	240705	AE2	IEN n° 09-0648-01
Burden	CFTA400	241620	AE2	
Digital multimeter	8846A	9721006	Fluke	LAT 046 N°343032
Digital multimeter	34401A	MV41020185	Agilent Tech.	SIT n° 329593
Burden	CFTV400	36512	AE2	
Dielectric test	M.R.E.	241727	AE2	
Transformer test	G803	1012	AE2	RTR n° 255140

Notes:

The symmetrical measurement uncertainties, related to the measurement values are:

- ratio errors : +/- 0,02%
- phase errors: +/- 0,05%
- secondary current: 1%
- frequency: 0,5%
- burden: 3%

The measurement uncertainties related to the digital multimeters are:

- resistance: 0,2%
- voltage: 0,2%
- current: 0,2%

ROUTINE TESTS:

- Verification of terminal markings (see 7.3.6)
 - Power-frequency tests on secondary windings (see 7.3.4)
 - Over - voltage inter - turn tests (see 7.3.204 procedure A)
 - Tests of accuracy (see 7.3.5)
- In conformity with IEC 61869-1 / 61869-2

Signatures:

Operator <i>Molteni Gabriele</i>	Laboratory responsible <i>Merio Stefano</i>
-------------------------------------	--

AE2 s.r.l. via Guido Rossa, 14 - 20845 Sovico (MB) Italy
 tel.+39 039 2012676 - Fax +39 039 8900061 E-mail: info@ae2.it

	CERTIFICATION TEST REPORT		
	CURRENT TRANSFORMER		
Serial N. 3014-A02586	Model TM3-400A5-0.5-3VA		
Date 25/07/2014	Operator Molteni Gabriele	Customer	Order N.

Page 2 of 2

Accuracy test:

Core: 1

Coil: S1-S2 Ratio: 400/5 Burden: 3 VA Class: 0,5

Measured at 100% of Nom Burden

Nom %	Real %	Ratio Err %	Limit	Ph.Err.crad	Limit	Ph.Err. min	VA Burden
120	119,90	0,019	0,500	0,379	0,900	12,99	3,11
100	101,20	0,058	0,500	0,283	0,900	9,70	3,11
20	20,78	-0,001	0,750	0,542	1,350	18,59	3,11
5	5,29	-0,071	1,500	1,001	2,700	34,33	3,11


Measured at 25% of Nom Burden

Nom %	Real %	Ratio Err %	Limit	Ph.Err.crad	Limit	Ph.Err. min	VA Burden
120	119,70	0,198	0,500	0,248	0,900	8,50	1,56
100	99,40	0,196	0,500	0,259	0,900	8,88	1,56
20	20,97	0,117	0,750	0,503	1,350	17,25	1,56
5	5,43	0,025	1,500	0,844	2,700	28,94	1,56

Signatures:

Operator <i>Molteni Gabriele</i>	Laboratory responsible <i>Merio Stefano</i>
-------------------------------------	--

AE2 s.r.l. via Guido Rossa, 14 - 20845 Sovico (MB) Italy
 tel.+39 039 2012676 - Fax +39 039 8900061 E-mail: info@ae2.it

		CERTIFICATION TEST REPORT	
		CURRENT TRANSFORMER	
Serial N. 3014-A02598	Model TDSO2-5A5-0.5-6VA		
Date 25/07/2014	Operator Molteni Gabriele	Order N.	

Summary:

Freq.: 50 Hz	CosPhi: 0.8	Test Voltage: 0,72/3 kV	
Coil	Core	Ratio	Burden Class
P1-P2 S1-S2	1	5+5/5	6 VA 0,5

Test equipments:

Description	Type	Serial N.	Manufacturer	Certificate N.
Sample CT	TAKT	240705	AE2	IEN n° 09-0648-01
Burden	CFTA400	241620	AE2	
Digital multimeter	8846A	9721006	Fluke	LAT 046 N°343032
Digital multimeter	34401A	MY41028165	Agilent Tech.	SIT n° 329593
Burden	CFTV400	36512	AE2	
Dielectric test	M.R.E.	241727	AE2	
Transformer test	G803	1012	AE2	RTR n° 255140

Notes:

The symmetrical measurement uncertainties, related to the measurement values are:

ratio errors : +/- 0,02%
 phase errors: +/- 0,05%
 secondary current: 1%
 frequency: 0,5%
 burden: 3%


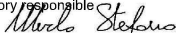
The measurement uncertainties related to the digital multimeters are:

resistance: 0,2%
 voltage: 0,2%
 current: 0,2%


ROUTINE TESTS:

Verification of terminal markings (see 7.3.6)
 Power-frequency tests on secondary windings (see 7.3.4)
 Over - voltage inter - turn tests (see 7.3.204 procedure A)
 Tests of accuracy (see 7.3.5)
 In conformity with IEC 61869-1 / 61869-2

Signatures:

Operator 	Laboratory responsible 
--	--

AE2 s.r.l. via Guido Rossa, 14 - 20845 Sovico (MB) Italy
 tel.+39 039 2012676 - Fax +39 039 8900061 E-mail: info@ae2.it

		CERTIFICATION TEST REPORT	
		CURRENT TRANSFORMER	
Serial N. 3014-A02598	Model TDSO2-5A5-0.5-6VA		
Date 25/07/2014	Operator Molteni Gabriele	Order N.	


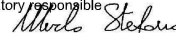
Accuracy test:

Core: 1			
Coil: P1-P2 S1-S2	Ratio: 5+5/5	Burden: 6 VA	Class: 0,5

Measured at 100% of Nom Burden							
Nom %	Real %	Ratio Err %	Limit	Ph.Err.crad	Limit	Ph.Err.min	VA Burden
120	120,70	0,117	0,500	0,013	0,900	0,44	6,15
100	100,20	0,136	0,500	-0,020	0,900	-0,68	6,15
20	20,11	0,013	0,750	0,165	1,350	5,65	6,15
5	5,30	-0,131	1,500	0,222	2,700	7,61	6,15

Measured at 25% of Nom Burden							
Nom %	Real %	Ratio Err %	Limit	Ph.Err.crad	Limit	Ph.Err.min	VA Burden
120	119,70	0,349	0,500	0,057	0,900	1,95	1,39
100	99,70	0,343	0,500	0,076	0,900	2,60	1,39
20	19,30	0,305	0,750	0,179	1,350	6,13	1,39
5	5,79	0,267	1,500	0,248	2,700	8,50	1,39

Signatures:

Operator 	Laboratory responsible 
---	--

AE2 s.r.l. via Guido Rossa, 14 - 20845 Sovico (MB) Italy
 tel.+39 039 2012676 - Fax +39 039 8900061 E-mail: info@ae2.it

Certificati di Taratura/Rapporti di prova/Prove di tipo

I documenti completi sono presenti negli archivi di AE2 srl, che possono essere messi a disposizione su richiesta

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Centro di Taratura LAT N° 057
 Calibration Centre
 Laboratorio Accreditato di
 Taratura



LAT N° 057
 Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
 Signatory of EA, IAF and ILAC Mutual Recognition Agreements

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CERTIFICATO DI TARATURA LAT 057 14008607
 Certificate of Calibration

- data di emissione date of issue	2015/02/02	<p>Il presente certificato di taratura è emesso in base all'accreditamento LAT N° 057 rilasciato in accordo ai decreti attuativi della legge n. 273/1991 che ha istituito il Sistema Nazionale di Taratura (SNT). ACCREDIA attesta la capacità di misura e di taratura, le competenze metrologiche del Centro e la rintracciabilità delle tarature eseguite ai campioni nazionali e internazionali delle unità di misura del Sistema Internazionale delle Unità (SI). Questo certificato non può essere riprodotto in modo parziale, salvo espressa autorizzazione scritta da parte del Centro.</p> <p>This certificate of calibration is issued in compliance with the accreditation LAT N° 057 granted according to decrees connected with Italian law No. 273/1991 which has established the National Calibration System. ACCREDIA attests the calibration and measurement capability, the metrological competence of the Centre and the traceability of calibration results to the national and international standards of the International System of Units (SI). This certificate may not be partially reproduced, except with the prior written permission of the issuing Centre.</p>
- cliente customer	ARO S.r.l. Via Trossa e Viesse, 112 20853 Bassorco (MB)	
- destinatario receiver	AE2 S.r.l. Via Guido Rossa, 14 Sovico (MB)	
- richiesta application	000895	
- in data date	2014/09/30	
- Si riferisce a Referring to		
- oggetto item	Trasformatore di corrente	
- costruttore manufacturer	AE2	
- modello model	TAKT	
- matricola serial number	s/n 240705	
- data di ricevimento oggetto date of receipt of item	2014/10/29	
- data delle misure date of measurements	2014/1/11	
- registro di laboratorio laboratory reference	14000082 pagg. 909 + 938	

I risultati di misura riportati nel presente Certificato sono stati ottenuti applicando le procedure di taratura citate alla pagina seguente, dove sono specificati anche i campioni o gli strumenti che garantiscono la catena di rintracciabilità del Centro e i rispettivi certificati di taratura in corso di validità. Essi si riferiscono esclusivamente all'oggetto in taratura e sono validi nel momento e nelle condizioni di taratura, salvo diversamente specificato.
 The measurement results reported in this Certificate were obtained following the calibration procedures given in the following page, where the reference standards or instruments are indicated which guarantee the traceability chain of the laboratory, and the related calibration certificates in the course of validity are indicated as well. They relate only to the calibrated item and they are valid for the time and conditions of calibration, unless otherwise specified.

Le incertezze di misura dichiarate in questo documento sono state determinate conformemente alla Guida ISO/IEC 98 e al documento EA-4/02. Solitamente sono espresse come incertezza estesa ottenuta moltiplicando l'incertezza tipo per il fattore di copertura k corrispondente ad un livello di fiducia di circa il 95%. Normalmente tale fattore è vale 2.
 The measurement uncertainties stated in this document have been determined according to the ISO/IEC Guide 98 and to EA-4/02. Usually, they have been estimated as expanded uncertainty obtained multiplying the standard uncertainty by the coverage factor k corresponding to a confidence level of about 95%. Normally, this factor k is 2.

RSE S.p.A.
 Dipartimento Tecnologie T&D
 Il Direttore

Il Responsabile del Centro
 Head of the Centre
 Claudio Cherbaucchi



14008555

Rapporto di prova

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Cliente	AE2 S.r.l. - Sovico (MB)
Indirizzo del cliente	Via Guido Rossa, 14 Sovico (MB)
Ordine	000895 del 2014/09/30 ARO S.r.l. - Biassono (MB)
Campioni/Oggetti in prova	Trasformatore di corrente Costruttore AE2 Tipo TAKT s/n 240705
Prove eseguite	Verifica di taratura
Documenti normativi	LM321 e su specifica richiesta del Cliente
Data prove	dal 2014/11/10 al 2014/11/10

I risultati di prova nel presente documento si riferiscono ai soli campioni/oggetti sottoposti a prova.
 La parziale riproduzione di questo documento è permessa solo con l'autorizzazione scritta di RSE.

N. pagine	5	N. pagine fuori testo	
Data di emissione	2015/02/02		
Elaborato	Gentili Mario (TTD)		
Verificato	Cherbaucchi Claudio (FSP)		
Approvato	De Nigris Michele (TTD)		

Ricerca sul Sistema Energetico - RSE S.p.A.
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M&P v.02



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www.aroelettronica.it info@aroelettronica.it
Sistema Qualità Aziendale Certificato UNI EN ISO9001:2008



Authorized Service Center

LABORATORIO DI TARATURA
Calibration Laboratory

Rapporto di Taratura Riferibile N° 278742
Report of Traceable Calibration nr.

Revisione N° Prima Emissione / First Issue
Revision nr.

Data di emissione 24-Nov-2015
Date of issue 24-Nov-2015
Data delle misure 24-Nov-2015
Date of measurements 24-Nov-2015
Destinatario AE2 S.r.l.
Addressee AE2 S.r.l.
Richiesta 141128
Application 141128
Oggetto/Strumento Comparatore per trasformatori
Item/Instrument Comparatore per trasformatori
Costruttore AE2
Manufacturer AE2
Modello G803
Model G803
Numero di serie 2137
Serial Number 2137
Matricola/Cespite Non indicato
Asset Number Non indicato
Come trovato Funzionante
As found Functioning
Operazioni eseguite Verifica della taratura
Performed operations Calibration verify
Come lasciato Valutabile attraverso i risultati e le incertezze di misura
As left Directly evaluable by results and measurement uncertainties
Operatore D. Motta
Operator D. Motta
Procedura di taratura AE2 G803 RPT /5520.. Rev. 1.6
Calibration Procedure AE2 G803 RPT /5520.. Rev. 1.6
Annotazioni Nessuna
Notes Nessuna

Strumentazione utilizzata - Riferibilità
References Used - Traceability

Descrizione Description	Oggetto/Strumento Item/Instrument	Certificato di taratura Certificate of Calibration	Scadenza Due Date
Phase Meter	Clarke Hess 6000	INRIM 14-0710-01	23-Oct-2016
Multimeter	Fluke 8508A	LAT 347856	27-Jan-2016
Calibrator	Fluke 5520A	LAT 347911	31-Jan-2016
Calibrator	Fluke 5520A	LAT 348530	30-Apr-2016

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Operatore
Operator

1/7

Responsabile del laboratorio
Chief of Laboratory



LOW VOLTAGE AGREEMENT GROUP

CONFIRMATION AS REGISTERED LABORATORY

according to ISO/IEC 17025

The LOVAG Management Committee has approved

**The Laboratory of I.N.R.I.M.
In 10125 Torino - ITALY**
as
LOVAG Registered Laboratory
Under the registration code: **II 01**

This certifies that all the requirements for testing in compliance with ISO/IEC 17025 and the LOVAG Agreement and LOVAG Rules have been fulfilled.

LOVAG Test Reports produced by this Laboratory must be used for the issue of LOVAG Certificates and Licences for the LOVAG Mark in compliance to the LOVAG rules.

The reference certification body is:

ACAE in 24123 Bergamo, ITALY
being a member of LOVAG

Issue date: 21st October 2015

SECC(LOVAG)IS:11D

Marie-Elisabeth d'Ornano
Chairman of LOVAG
ASEFA, France

Dr. Horst Huthmann
Secretary to LOVAG
Germany

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Technical Committee Chairman:
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ACAE, Italy

Secretary:
Dr. Horst Huthmann,
Germany

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I.N.R.I.M.

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Strada delle Casce, 91 - 10135 TORINO (Italia)



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+39 011 346384
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TEST REPORT

No. 16-0429-01 issued on 2016-06-27

Description Current transformer
Model/Type TRP2, TR4, TR43, TR5, TM4, TR12, TS20
Identification See par. 1 (pages 2-4)
Manufacturer AE2 S.r.l.
Date of the tests from 2016-06-13 to 2016-06-15
Applied procedure Standards: IEC 61869-2 (2013-07)
Sub clauses:
7.2 Type tests;
7.2.201 Short-time current tests;
7.3 Routine tests
7.3.1 Power-frequency voltage withstand tests on primary terminals
7.3.4 Power-frequency voltage withstand tests on secondary terminals
Laboratory reference LATFC02
Customer AE2 S.r.l.
Address Via G. Rossa, 14
20045 Sovico (MO)
ITALY

Measured by

(Luca Cinnirella)

Authorized signatory
Responsible of the Service

(Vito Femicola)

This report states that the measurements have been carried out using devices traceable to the Italian National Standards (Ministerial Decree no. 591/1993) and to the measurement units realized or maintained by INRIM, according to the Italian law no. 273/1991. The results reported in this document refer exclusively to the items described and to the specified measurement conditions. The authenticity of this report is proved by the original signatures and the embossing stamp. This document may be reproduced only in full. It may be partially reproduced only with the written approval of INRIM, to be mentioned on the same copy.

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Strada delle Casce, 91 - 10135 TORINO (Italia)



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+39 011 346384
inrim@inrim.it - www.inrim.it

Page 1 of 27

REPORT

No. 16-0429-02 issued on 2016-06-27

Description Witness tests on MEASURING CURRENT TRANSFORMERS according to § 7.2.6.201 of IEC 61869-2 (Test for ratio error and phase displacement of measuring current transformers).
Customer AE2 S.r.l.
Address Via G. Rossa, 14
20045 Sovico (MO)
ITALY

Drafter

(Luca Cinnirella)

Authorized signatory
Responsible of the Service

(Vito Femicola)

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