

ROMANIAN ACCREDITATION ASSOCIATION - RENAR

Bucharest, Calea Vitan no. 242, sector 3, zip code 031301

CIF RO 4311980



RENAR is EA-MLA signatory for Testing.

ACCREDITATION CERTIFICATE

No. LI 1072

Romanian Accreditation Association – RENAR, being recognized as National Accreditation Body by OG 23/2009, herewith attests that the organization:

ADD PRODUCTION SRL

Chişinău, no. 139 B-dul Decebal, MD-2060, Republica Moldova

through

Testing laboratory

fulfills the requirements of **SR EN ISO/CEI 17025:2005** and is competent to carry on **TESTING** activities, as it is detailed in the Annex of the present accreditation certificate.

This accreditation is maintained provided that the accreditation criteria established by the Romanian Accreditation Association – RENAR are met continuously.

The present certificate includes Annex no. 1 (2 pages), which is an integrated part of this certificate.

In order to check the validity of the accreditation certificate, including the Annex, the website of RENAR shall be consulted: www.renar.ro.

Date of initial accreditation: 16.10.2015

The accreditation is valid until: 15.10.2019

GENERAL DIRECTOR

PRESIDENT OF THE ACCREDITATION COUNCIL

Cătălina Viorica NEAGUE

PhD. Eng. Dumitru DINU



Annex no. 1 to Accreditation Certificate no. LI 1072
Annex no. 1 Issue Date: 16.10.2015

Testing laboratory

Chişinău, no. 36 Dragomirna street, Republica Moldova

belonging to ADD Production SRL

Tests performed in permanent sites

No.	Activity area/Analytical principle / Name of the test	Material / product	Reference document
Accuracy tests at reference conditions			
1.	Accuracy at reference conditions.	Single and three-phase static meters for active energy Single and three-phase static meters for reactive energy	SM SR EN 50470-3:2010, Clause 8.7.2 EN 50470-3:2005, Clause 8.7.2 SM SR EN 62053-23:2010, Clause 8.1 EN 62053-23:2003, Clause 8.1 WI-053-01
Tests of effects of influence quantities			
2.	Voltage variation	Single and three-phase static meters for active energy Single and three-phase static meters for reactive energy	SM SR EN 50470-3:2010, Clause 8.7.5.3 EN 50470-3:2005, Clause 8.7.5.3 SM SR EN 62053-23:2010, Clause 8.2 EN 62053-23:2003, Clause 8.2 WI-053-06
3.	Frequency variation	Single and three-phase static meters for active energy Single and three-phase static meters for reactive energy	SM SR EN 50470-3:2010, Clause 8.7.5.4 EN 50470-3:2005, Clause 8.7.5.4 SM SR EN 62053-23:2010, Clause 8.2 EN 62053-23:2003, Clause 8.2 WI-053-07
Tests of effects of disturbances of long duration:			
4	Reversed phase sequence.	Single and three-phase static meters for active energy.	SM SR EN 50470-3:2010, Clause 8.7.7.3 EN 50470-3:2005, Clause 8.7.7.3 WI-053-10
5	Voltage unbalance.	Single and three-phase static meters for active energy	SM SR EN 50470-3:2010, Clause 8.7.7.4 EN 50470-3:2005, Clause 8.7.7.4 WI-053-11
6	Self-heating	Single and three-phase static meters for active energy Single and three-phase static meters for reactive energy	SM SR EN 50470-3:2010, Clause 8.7.7.5 EN 50470-3:2005, Clause 8.7.7.5 SM SR EN 62053-23:2010, Clause 7.3 EN 62053-23:2003, Clause 7.3 WI-053-09
7	Accuracy in the presence of harmonics	Single and three-phase static meters for active energy	SM SR EN 50470-3:2010, Clause 8.7.7.7 EN 50470-3:2005, Clause 8.7.7.7 WI-053-08
Tests of starting and no - load conditions			
8	Initial start - up	Single and three-phase static meters for active energy Single and three-phase static meters for reactive energy	SM SR EN 50470-3:2010, Clause 8.7.9.2 EN 50470-3:2005, Clause 8.7.9.1 SM SR EN 62053-23:2010, Clause 8.3.1 EN 62053-23:2003, Clause 8.3.1 WI-053-04
9.	No – load condition test	Single and three-phase static meters for active energy Single and three-phase static meters for reactive energy	SM SR EN 50470-3:2010, Clause 8.7.9.3 EN 50470-3:2005, Clause 8.7.9.2 SM SR EN 62053-23:2010, Clause 8.3.2 EN 62053-23:2003, Clause 8.3.2 WI-053-03
10	Starting	Single and three-phase static meters for active energy Single and three-phase static	SM SR EN 50470-3:2010, Clause 8.7.9.4 EN 50470-3:2005, Clause 8.7.9.3 SM SR EN 62053-23:2010, Clause 8.3.3

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No.	Activity area/Analytical principle / Name of the test	Material / product	Reference document
		meters for reactive energy	EN 62053-23:2003, Clause 8.3.3 WI-053-01
Meter constant			
11	Metre constant	Single and three-phase static meters for active energy Single and three-phase static meters for reactive energy	SM SR EN 50470-3:2010, Clause 8.7.10 EN 50470-3:2005, Clause 8.7.10 SM SR EN 62053-23:2010, Clause 8.4 EN 62053-23:2003, Clause 8.4 WI-053-05
Testing of the insulation			
12	AC voltage test	Single and three-phase static meters for active energy Single and three-phase static meters for reactive energy	SM SR EN 50470-3:2010, Clause 7.2 EN 50470-3:2005, Clause 7.2 SM SR EN 62053-23:2010, Clause 1.4 EN 62053-23:2003, Clause 7.4 W1-053-12

Note 1: Single-phase static meters (for active and reactive energy):

U_n (V): 230; I_{st} (A): 0,02-0,04; I_{min} (A): 0,25-0,5 ; I_{tr} (A): 0,5 -1;
 I_{ref} (A): 5 -10 ; I_{max} (A): 80-100; f_{ref} (Hz): 50.

accuracy class: A (according to SM SR EN 50470-3:2010)

B (according to SM SR EN 50470-3:2010)

2 (according to SM SR EN 62053-23:2010)

Note 2: Three – phase static meters (for active and reactive energy):

U_n : 3x57,7V/100V; 3x230V/400V; f_{ref} : 50 Hz

direct connection: I_{st} : 0,025A; 0,05A; I_{st} : 0,02A; 0,04A; I_{min} : 0,25A; 0,5A;

I_{tr} : 0,5A; 1A; I_{ref} : 5A; 10A; I_{max} : 80A; 100A

accuracy class:

A (according to SM SR EN 50470-3:2010)

B (according to SM SR EN 50470-3:2010)

2 (according to SM SR EN 62053-23:2010)

transformer connection: I_{st} : 0,0025A; 0,005A; I_{min} : 0,025A; 0,05A

I_{tr} : 0,125A; 0,25A; I_n : 5A; I_{max} : 10A

accuracy class:

B (according to SM SR EN 50470-3:2010)

C (according to SM SR EN 50470-3:2010)

2 (according to SM SR EN 62053-23:2010)

End of document

/ **GENERAL DIRECTOR**
Cătălina Viorica NEAGUE

