

# EU Declaration of Conformity (DoC)

In accordance with LVS EN ISO/IEC 17050-1:2010

№: 00001ED2019

**We,**

Company name: JSC "Engineering Center" Energoservice"  
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**declare that the DoC is issued under sole responsibility of the manufacturer and belongs to the following product**

## MULTIFUNCTIONAL MEASURING DEVICE WITH INDICATION MODULE

Type: **ESM – XX XXX – XXX – XXXX – XXX\*** (measuring device)  
**ENMI-5-24-2** (indication module)

\* See the Description of the products in Appendix A

**The object of the declaration, described above, is in conformity with the relevant Union harmonization legislation: Directive 2014/35/EU (LVD) and Directive 2014/30/EU (EMC).**

**The following harmonized standards and technical specifications have been applied:**

	№	Title
LVD	LVS EN 61010-1:2010 + A1:2019	<i>Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements (IEC 61010-1:2010 + A1:2016)</i>
EMC	LVS EN 61326-1:2013	<i>Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements (IEC 61326-1:2012)</i>

**Test report references:**

	Test report №	Date	Testing laboratory
LVD	1812604729E/45039/TR/19	21.08.2019	TUV NORD Baltik LLC, LVD Testing Laboratory.
EMC	LEITC-TR-19-89	09.07.2019	Latvian Electronic Equipment Centre.

**Certificate of conformity references:**

	Certificate №	Date	Certification Body
LVD	1812604729E/L19/48037	06.09.2019	Certification Body of TUV NORD Baltik LLC.
EMC	1812604729E/E19/48036	06.09.2019	Certification Body of TUV NORD Baltik LLC.

**Conformity assessment body:**

Name	Address
TUV NORD Baltik LLC, LVD Testing Laboratory.	3 Saremas Street, Riga, LV-1005, Latvia.
Latvian Electronic Equipment Centre.	Azenes 12, Riga, Latvia, LV-1048.
Certification Body of TUV NORD Baltik LLC.	3 Saremas Street, Riga, LV-1005, Latvia.

**Signed for and on behalf of:**

Name, Surname: **Igor Fleishman**  
 Position / Title: **General director**




06.09.2019



**Arkhangelsk, Russia**

ESM-XX-X-X-X

**Connection type**

HV – conventional CT and VT  
ET – electronic CT and VT  
SV – according IEC 61850-9-2

**Rated input values**

ESM-HV

100 – 57.7 (100) V phase (line-to-line)  
400 – 230 (400) V phase (line-to-line)  
690 – 400 (690) V phase (line-to-line)

ESM-ET

– current, V: 1 – 0.15, 2 – 0.2, 3 – 0.225,  
4 – 0.333, 5 – 1.0, 6 – 1.625, 7 – 2, 9 – 4  
– voltage, V: 2 – 0.2, 4 – 0.333, 5 – 1.0,  
6 – 1.625, 7 – 2.0, 8 – 3.25, 9 – 4

**TOU revenue metering and PQM**

ESM-HV

02A – energy class (active/reactive) 0.2S/0.5; PQM class A  
02S – energy class (active/reactive) 0.2S/0.5; PQM class S  
05A – energy class (active/reactive) 0.5S/1.0; PQM class A  
05S – energy class (active/reactive) 0.5S/1.0; PQM class S

ESM-ET

05S – energy class (active/reactive) 0.5S/1.0; PQM class S

ESM-SV

02A – energy class (active/reactive) 0.2S/0.5; PQM class A

**Interfaces**

A2E2 – 2 × RS-485, 2 × Ethernet 100Base-TX  
A2E4 – 2 × RS-485, 4 × Ethernet 100Base-TX

**Power supply voltage**

220 – 100–265 V AC (45–55 Hz) or 120–370 V DC  
24 – 18–36 V DC

Signed for and on behalf of:

Name, Surname: **Igor Fleyshman**

Position / Title: **General director**



Signature



Date:

06.09.2019