

# Certificate of conformity with the following European Directives

Registered No.:

1812604729E/E19/48036

## Electromagnetic Compatibility Directive 2014/30/EU

Reference of applicant	Date of application	File reference	Test report No.	Date of issue	Expire date
8369	2018-12-18	8369-ENE_ESME1	LEITC-TR-19-89	2019-09-06	2024-09-05

This is to certify that the following products comply to the essential requirements of the above mentioned European Directive and the following standards:

- Product:** Multifunctional measuring device with indication module.
- Type designation:** **ESM - XX XXX – XXX – XXXX – XXX** (measuring device) (See Annex 1)  
**ENMI-5-24-2** (indication module).
- Applicant:** JSC «Engineering Centre «Energoservice»  
44, Aviamotornaya str., Bld 1, Office 1A, Room 1, Moscow, 111024, Russia.
- Standard(s):** LVS EN 61326-1:2013

This Certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TUV NORD Group. This is to certify that the tested sample is in compliance with the essential requirements referred to Electromagnetic Compatibility Directive 2014/30/EU. The holder of this certificate may use this Certificate together with his EU-Declaration of Conformity.



/ M. Porubova /  
Certification Body of TUV NORD Baltik LLC

**TUV NORD Baltik LLC**  
Reg № 40003121062  
3 Saremas Street, Riga,  
LV 1005, Latvia  
Phone +371-67370391  
E-mail: [info@tuv-nord.lv](mailto:info@tuv-nord.lv),  
[www.tuv-nord.lv](http://www.tuv-nord.lv)

 The CE marking may be affixed on the product if all relevant and effective Directives are complied with. 

№ 001113

**Description of product(s):**

**ESM:** 18 ... 36 VDC or 120...370 VDC or 100...265 VAC, 45...55 Hz, 10 VA, IP40.  
**ENMI-5-24-2:** 18...36 VDC, 5 VA, IP30, Class III.

**ESM - XX XXX - XXX - XXXX - XXX**

**Connection type:**

**HV** – conventional CT and VT  
**ET** – Electronic CT and VT  
**SV** – acc. with 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            **5** – 1.0  
**2** – 0.2             **6** – 1.625  
**3** – 0.225         **7** – 2  
**4** – 0.333         **9** – 4  
**Voltage, V:**  
**2** – 0.2             **7** – 2.0  
**4** – 0.333         **8** – 3.25  
**5** – 1.0             **9** – 4  
**6** – 1.625

**Power supply voltage:**

**220** – 100 ... 265 VAC (45 ... 55 Hz) or 120 ... 370 VDC  
**24** – 18 ... 36 VDC

**Interfaces:**

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

**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



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 Reg № 40003121062  
 3 Saremas Street, Riga,  
 LV 1005, Latvia  
 Phone +371-67370391  
 E-mail: info@tuv-nord.lv,  
 www.tuv-nord.lv

## Certificate of conformity with the following European Directives

Registered No.:

1812604729E/L19/48037

### Low Voltage Directive 2014/35/EU

Reference of applicant	Date of application	File reference	Test report No.	Date of issue	Expire date
8369	2018-12-18	8369-ENE_ESML1	1812604729E/45039/TR/19	2019-09-06	2024-09-05

This is to certify that the following products comply to the essential requirements of the above mentioned European Directive and the following standards:

- Product:** Multifunctional measuring device with indication module.
- Type designation:** **ESM - XX XXX – XXX – XXXX – XXX** (measuring device) (See Annex 1)  
**ENMI-5-24-2** (indication module).
- Applicant:** JSC «Engineering Centre «Energoservice»  
44, Aviamotornaya str., Bld 1, Office 1A, Room 1, Moscow, 111024, Russia.
- Standard(s):** LVS EN 61010-1:2011 + A1:2019 (IEC 61010-1:2010 + A1:2016).

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/ M. Porubova /  
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Reg № 40003121062  
3 Saremas Street, Riga,  
LV 1005, Latvia  
Phone +371-67370391  
E-mail: info@tuv-nord.lv,  
www.tuv-nord.lv

 The CE marking may be affixed on the product if all relevant and effective Directives are complied with. 

**Description of product(s):**

**ESM:** 120...370 VDC / 100...265 VAC, 45...55 Hz, 10 VA, IP40.  
**ENMI-5-24-2:** 18...36 VDC, 5 VA, IP30, Class III.

**ESM – XX XXX – XXX – XXXX – XXX**

**Connection type:**

**HV** – conventional CT and VT  
**ET** – Electronic CT and VT  
**SV** – acc. with 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            **5** – 1.0  
**2** – 0.2             **6** – 1.625  
**3** – 0.225          **7** – 2  
**4** – 0.333          **9** – 4  
**Voltage, V:**  
**2** – 0.2             **7** – 2.0  
**4** – 0.333          **8** – 3.25  
**5** – 1.0             **9** – 4  
**6** – 1.625

**Power supply voltage:**

**220** – 100 ... 265 VAC (45 ... 55 Hz) or 120 ... 370 VDC  
**24** – 18 ... 36 VDC

**Interfaces:**

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

**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



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