Declaration of Conformity
IEC/EN 61557-12:2018/AMD1:2021

Range: Acti9 iEM3000 series

Products: iEM3210, iEM3215, iEM3235, iEM3250, iEM3255, iEM3265, iEM3275

Above product types are prefixed with A9MEM

We, the undersigned, declare that we performed conformity assessment activities, and that the obtained results demonstrate the conformity[1] of the products declared herein to the specified characteristics listed below:

[1] when subject to correct installation, maintenance and use conforming to their intended purpose, according to applicable regulations and standards in the country where they are installed, to the supplier's instructions and to accepted rules of the art

PMD-II/SD/K70/0.5 (x5 A CT)
PMD-II/SD/K70/1 (x1 A CT)
PMD-II/SS/K70/0.5 (x5 A CT)
PMD-II/SS/K70/1 (x1 A CT)

Legend: **PMD/*cv*/K*tt*/*p***
PMD: Performance Measuring and monitoring Device ;Type II
c : Current measurement (S: with sensor, indirect insertion, D: Direct insertion)
v : Voltage measurement (S: with sensor, indirect insertion, D: Direct insertion)
K*tt* : Temperature Class
p : Active Energy Performance Class

INTRODUCTION

The IEC/EN 61557-12 standard provides basis by which measurement products can be specified, described and evaluated. The standard specifications cover:

- product performances within a specified temperature range
- product robustness regarding EMC, climatic and mechanical influences
- product safety

1. PRODUCT CHARACTERISTICS

I_n	I_{max}	U_{min} (L-N/L-L)	U_n (L-N/L-L)	U_{max} (L-N/L-L)	CT Ratio (A: A)	PT Ratio (V: V)
5 A	6 A	100/173V	230/400V	277/480V	1 to 32767	1 to 999999
1 A	1.2 A					

Remark: Continuous Overload is 10A

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2. FUNCTIONS PERFORMANCE CLASS

Function symbol	Function	Function performance class acc. to IEC 61557-12	Measuring range (with CT ratio = 1:1 and VT ratio = 1:1)	Other complementary characteristics
P	Total active power	1 (x1A CT)	2% In ≤ I ≤ Imax PF=1 5% In ≤ I ≤ Imax 0,5 Ind, 0,8 Cap	Only for iEM3250/ iEM3235 / iEM3255 / iEM3265 / iEM3275
		0.5(x5A CT)	1% In ≤ I ≤ Imax PF=1 2% In ≤ I ≤ Imax 0,5 Ind, 0,8 Cap	Only for iEM3250/ iEM3235 / iEM3255 / iEM3265 / iEM3275
Sv	Total apparent Power Vector	1 (x1A CT)	2% In ≤ I ≤ Imax	Only for iEM3235/ iEM3255/ iEM3265/ iEM3275
		0.5(x5A CT)	2% In ≤ I ≤ Imax	
Qv	Total reactive power vector	2	2% In ≤ I ≤ Imax Sinϕ 1 Ind or 1 Cap 5% In ≤ I ≤ Imax Sinϕ 0,5 Ind or 0,5 Cap 10% In ≤ I ≤ Imax Sinϕ 0,25 Ind or 0,25 Cap	Only for iEM3235 / iEM3255 / iEM3265 / iEM3275
Ea	Total active energy	1 (x1A CT)	2% In ≤ I ≤ Imax PF=1 5% In ≤ I ≤ Imax 0,5 Ind 0,8 Cap 0-99999999.9 KWh	Compliance with accuracy requirements of IEC62053-21 Class 1 Only for iEM3250/ iEM3210/iEM3215/iEM3235 / iEM3255 / iEM3265 / iEM3275
		0.5(x5A CT)	1% In ≤ I ≤ Imax PF=1 2% In ≤ I ≤ Imax 0,5 Ind 0,8 Cap 0-99999999.9 KWh	Compliance with accuracy requirements of IEC62053-22 Class 0,5S Only for iEM3250/ iEM3210/iEM3215/iEM3235 / iEM3255 / iEM3265 / iEM3275
Erv	Total reactive energy Vector	2	2% In ≤ I ≤ Imax Sinϕ 1 Ind or 1 Cap 5% In ≤ I ≤ Imax Sinϕ 0,5 Ind or 0,5 Cap 10% In ≤ I ≤ Imax Sinϕ 0,25 Ind or 0,25 Cap 0-99999999.9 Kvarh	Compliance with accuracy requirements of IEC62053-23 Class 2, Only for iEM3155 Only for iEM3235 / iEM3255 / iEM3265 / iEM3275
f	Frequency	0.05	45 Hz – 65 Hz	Only for iEM3235 / iEM3255 / iEM3265 / iEM3275
I	Phase current	0.5	10% *In* ≤ *I* ≤ *Imax*	Only for iEM3235 / iEM3250/ iEM3255 / iEM3265 / iEM3275
U	Voltage (L-L)	0.5	100V-480V	Only for iEM3235 / iEM3255 / iEM3265 / iEM3275/ iEM3250

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PF_V	Power factor Vector	0.5	From 0,5 Ind to 0,8 Cap	Only for iEM3235 / iEM3255 / iEM3265 / iEM3275 /iEM3250

3. CLIMATIC

Characteristic	Value	class acc. to IEC 61557-12	class acc. to IEC 60721-3-x
Temperature rated operating range (with specified uncertainty)	–25 °C to +70 °C	K70	3K8H
Temperature llimit range of operation (no hardware failures)	–25 °C to +70 °C		3K8H
Temperature limit range for storage / shipping	–40 °C to +85 °C		1K5 / 2K4
Humidity rated operating range (with specified uncertainty)	5% to 95% RH (non-condensing)	---	---
Humidity limit range of operation for 30 days/year			---
Humidity limit range for storage and shipping			---
Altitude	0 to 3000 m		---

4. SAFETY, EMC and MECHANICAL

Characteristic	Reference standard	Level
EMC emission	IEC 61326-1 / CISPR 11	Class B
EMC immunity	IEC 61326-1 Edition 3.0	Table 2, Industrial electromagnetic environment
Product safety	UL/IEC 61010 Edition 3.1 IEC 61010-2-030:2017	Overvoltage / Measurement category III, Pollution degree 2, protective class 2
IP degree	IEC 60529	Front panel IP40; casing IP20 (excluding terminals)

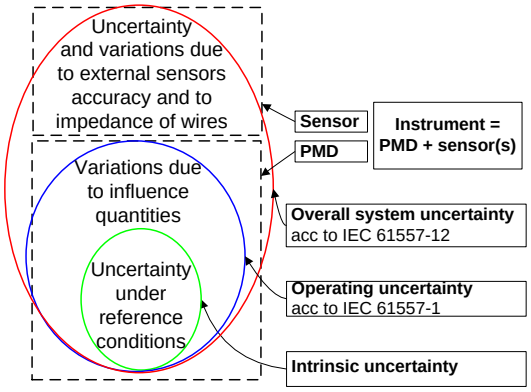
5. RECOMMANDATION FOR SYSTEM PERFORMANCE

The association of a PMD with external current and/or voltage sensors builds a complete instrument.

The system performance class depends on the sensor class and the PMD performance class

See annex C and annex D of IEC 61557-12 for evaluation of the system performance class.

It is recommended that the sensor class should be better or equal to the performance class of its associated PMD.



Signé par :
Marie-Pierre Vayr-Passays
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Nom, Fonction / Name, title : **Marie Pierre Vayr-Passays**
VP, Customer Satisfaction & Quality Digital Energy

Date et lieu d'établissement / Place and date: Grenoble, France, December 08,2025.

Signature / Signature :

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General