

Declaration of Conformity to IEC/EN 61557-12 edition 1.0



Range: PM55xx

Products : PM5560, PM5563

We, the undersigned, declare that we performed conformity assessment activities, and that the obtained results demonstrate the conformity¹ 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/SD/K70/0,2
PMD/SS/K70/0,2

Legend: PMD/cv/Kt/p

PMD: Performance Measuring and monitoring Device

c : Current measurement (S: with sensor, indirect insertion, D: Direct insertion)

v : Voltage measurement (S: with sensor, indirect insertion, D: Direct insertion)

Kt : 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_b	I_{max}	U_n (L-N/L-L)	CT ratio	VT ratio
5 A	5 A	10 A	57,7/100V, 230/400V, 400/690V	1 to 32767	1 to 8000

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
Ea	Total active energy	0,2	0 to 9,223 E+19 W·h	Compliance with accuracy requirements of IEC62053-21 class 0,2 & ANSI C12.20 class 0.2
ErV	Total reactive energy Vector	2	0 to 9,223 E+19 Var·h	Compliance with accuracy requirements of IEC 62053-23 class 2
EapV	Total apparent energy Vector	0,5	0 to 9,223 E+19 VA·h	
P	Total active power	0,2	1% $I_n \leq I < I_{max}$	
QV	Total reactive power Vector	1	2% $I_n \leq I < I_{max}$	
SV	Total apparent power Vector	0,5	2% $I_n \leq I < I_{max}$	
f	Frequency	0,05	45 Hz – 65 Hz	
I	Phase current	0,2	0,1% I_n – 180% I_n A	
IN	Neutral current (measured)	0,2	0,1% I_n – 180% I_n A	
U	Voltage (L-L)	0,1	100 V – 690 V	

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PFV	Power factor Vector	1	0,5 Ind to 0,8 Cap
Unba	Voltage Unbalance amplitude (L-N)	0,2	0% U_n - 10% U_n V
Uh	Voltage harmonics	2	Up to rank 63rd
THDu	Voltage THD	2	0% to 100%
THD-Ru	Voltage THD	2	0% to 100%
Ih	Current harmonics	2	Up to rank 63rd
THDI	Current THD	2	0% to 100%
THD-Ri	Current THD	2	0% to 100%

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 limit 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)	0 to 75 % RH	Standard conditions	---
Humidity limit range of operation for 30 days/year	0 to 90 % RH		---
Humidity limit range for storage and shipping	0 to 90 % RH		---
Altitude	0 to 3000 m		---

4. MECHANICAL, EMC AND SAFETY

Characteristic	Reference standard	Level
EMC emission	IEC 61326-1 / CISPR 11	Class B
EMC immunity	IEC 61326-1	Table 2, uncontrolled industrial environment
Product safety	IEC 61010 Ed. 3	Overvoltage / Measurement category III, Pollution degree 2, protective class 2
IP degree	IEC 60529	Front panel IP52; Back IP30 (excluding terminals)

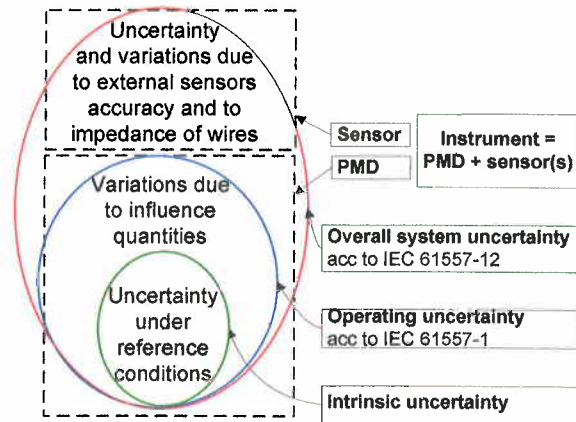
5. RECOMMANDATION FOR SYSTEM PERFORMANCE

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.



Date: October 23, 2013

Signature: *Elmer Gordon*

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Customer Satisfaction & Quality

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