

EU Type Examination Certificate Number: 0120/SGS0131

Schneider Electric Pvt. Ltd

Hosur Main Road
12A, Attibele Industrial Area
Neralur (PO), Bangalore -562107
India

Instrument Identification:
PM5561, PM5661, PM5761

Poly phase, Active Import/ Export (kWh), Transformer Operated, Auxiliary power supply, RS485, Dual Ethernet, 2 digital outputs, 4 digital inputs

Instrument Traceable Number
0120/SGS0131

has been assessed and certified as meeting the requirements of

EU Directive 2014/32/EU on Measuring Instruments Annex II, Module B

It is certified that the manufacturer's technical design and specimen for the above instrument has been examined and, based on the evidence submitted, it is considered that the instrument conforms to the requirements of Annex V of EU Directive 2014/32/EU

This certificate must be used in conjunction with a certificate covering the product verification as required in Annex II, Module D or Annex II, Module F

This certificate is valid until 13th February 2024
Issue 3

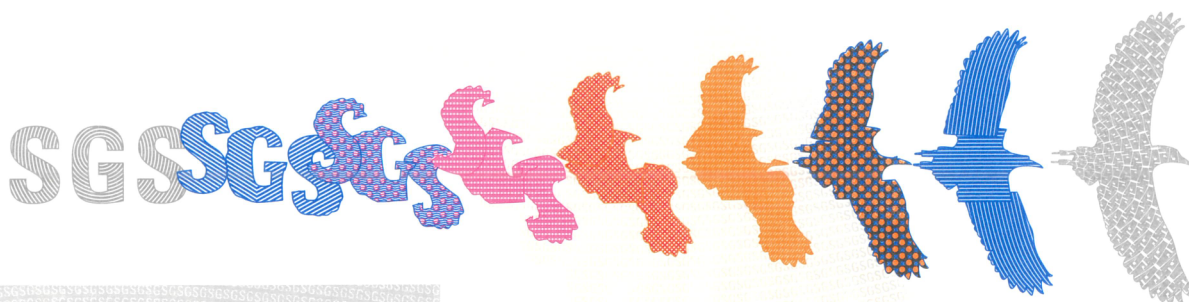
Certification is based on report number(s): EMA175578 MID Issue 1 dated 7th February 2014
EMA175578/TR50579 dated 4th April 2018
EMA287946/1 dated 1st April 2021, EMA297438/1 dated 24th December 2021

Authorised Signature



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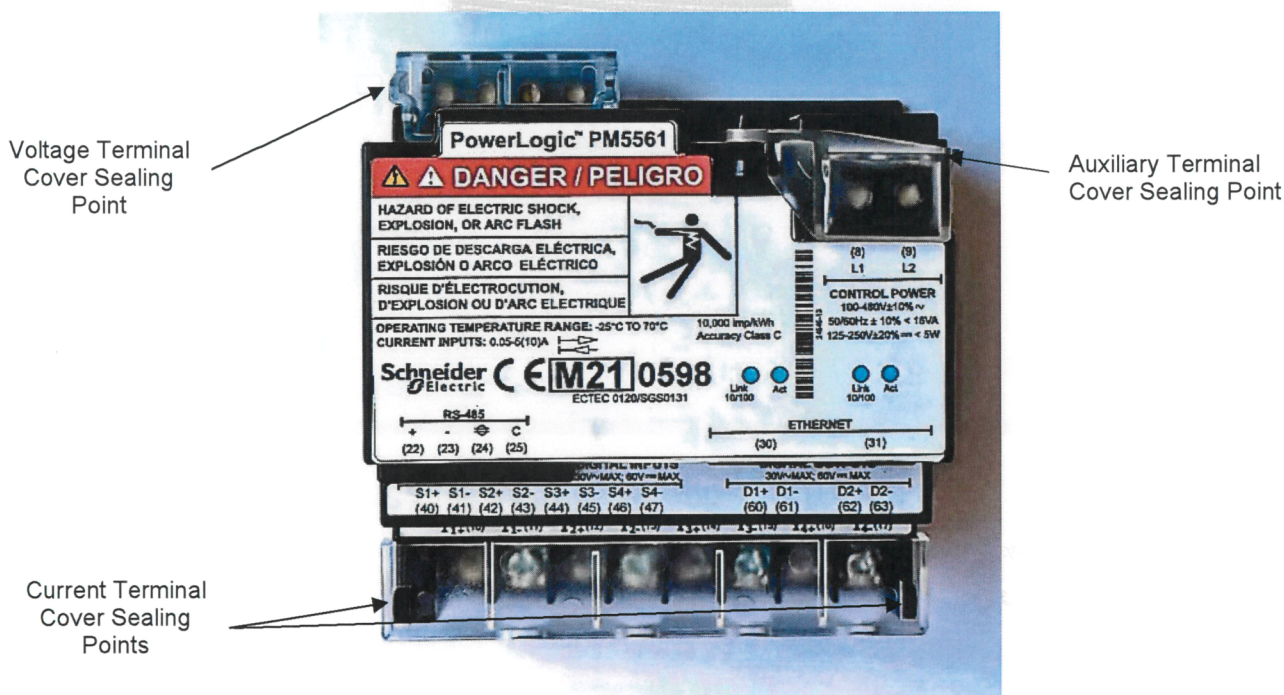
Issue Number: 3

Dated: 28th March 2022**1. Technical Data**

Manufacturer	Schneider Electric
Meter Type	PM5561, PM5661, PM5761
Voltage Rating (U_n)	3 x 230/400V
Current Rating (I_{min} – I_{ref} (I_{max}))	0.05-5(10)A
Frequency (F_n)	50Hz
Active Accuracy Class (kWh)	C (kWh)
Type of circuit	3p3w, 3p4w
Temperature Range	-25°C to +70°C
PM5561 Software/ Firmware Version No's	OS: V10.0.0.0 or V10.1.0.0 or V10.3.2 or V10.5.2.0 or V10.6.Z or V10.6.4 or V10.7.1 or V10.7.3 or 10.8.2 or 12.0.4
PM5561 CRC Checksum No's	9A66 or 61CD or 9C84 or 7196 or 1496 or 1CE3 or A29D or 148A or 0x4B24 or 0xB20D or 0xB904 or 0x4288
PM5661 Software/ Firmware Version No's	OS: V11.0.0
PM5661 CRC Checksum No's	0x8456
PM5761 Software/ Firmware Version No's	OS: V11.0.0
PM5761 CRC Checksum No's	0x1169
BOM No's	PM5560 PM5561 Comms HRB13411 PM5560 PM5561 Main-Analog_HRB13412 PM5560 PM5561 PSU R63230-828-50/MFR93449 PM5560 PM5561 Digital IO R63230-831-50 PM5661 PM5761 COMM CARD GDE33229 PM5661 PM5761 Main Analog MFR9435001 PM5661 PM5761 PSU MFR93449 PM5661 PM5761 RCM IO MFR13113
IP Rating	IP54 Front Display Meter body not rated, must be fitted in an IP51 Enclosure
Insulation Protective Class	Class II
LED Pulse Constant	10,000imp/kWh
Impulse Voltage Rating	6kV
AC Voltage Rating	4kV
Main Cover Sealing Type	Tamper evident self-locking rivet
Integrity of meter	Inaccessible without breaking seals
Intended Location of the Meter	Indoor
Type of Register	LCD
Terminal Arrangement(s)	DIN
Location of Manufacturers Address	Associated Documents

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2. Photograph of Meter and Sealing Plan
(PM5561 shown for representation. Similar plan available on PM5661& PM5761)



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Main Cover
Seal



3. Calculation of the composite error/ MPE

During the type approval examination the influence factors for temperature, frequency and voltage are determined per load point. The table below represents the sum of the square values per load, determined via the following formula:-

$$\delta e(T, U, f) = \sqrt{(\delta e^2(T, I, \cos\phi) + \delta e^2(U, I, \cos\phi) + \delta e^2(f, I, \cos\phi))}$$

where

- $\delta e(T, I, \cos\phi)$ = Additional error due to variation of the temperature at the same load
 $\delta e(U, I, \cos\phi)$ = Additional error due to variation of the voltage at the same load
 $\delta e(f, I, \cos\phi)$ = Additional error due to variation of the frequency at the same load

Influence Factors for temperature, frequency and voltage								
Current	PF Cos	-25°C	-10°C	5°C	30°C	40°C	55°C	70°C
I _{min}	1.0	0.23	0.16	0.09	0.02	0.06	0.11	0.13
I _{tr}	1.0	0.24	0.17	0.10	0.02	0.05	0.10	0.15
10I _{tr}	1.0	0.21	0.15	0.08	0.03	0.08	0.13	0.20
I _{max}	1.0	0.23	0.17	0.10	0.04	0.07	0.13	0.22
I _{tr}	0.5ind	0.11	0.10	0.08	0.09	0.11	0.15	-0.32
10I _{tr}	0.5ind	0.12	0.08	0.06	0.06	0.07	0.08	-0.10
I _{max}	0.5ind	0.51	0.08	0.05	0.09	0.05	0.05	0.05
I _{tr}	0.8cap	0.11	0.26	0.14	0.06	0.12	0.22	0.36
10I _{tr}	0.8cap	0.35	0.24	0.13	0.05	0.12	0.22	0.33
I _{max}	0.8cap	0.10	0.25	0.13	0.05	0.12	0.20	0.31
L1								
I _{tr}	1.0	0.20	0.14	0.08	0.03	0.05	0.10	0.14
10I _{tr}	1.0	0.20	0.14	0.08	0.02	0.06	0.11	0.21
I _{max}	1.0	0.41	0.15	0.09	0.02	0.06	0.13	0.24
I _{tr}	0.5ind	0.15	0.11	0.09	0.10	0.12	0.20	-0.34
10I _{tr}	0.5ind	0.13	0.09	0.07	0.08	0.09	0.09	-0.12
I _{max}	0.5ind	0.12	0.09	0.06	0.06	0.06	0.07	0.07
L2								
I _{tr}	1.0	0.24	0.16	0.09	0.03	0.08	0.13	0.18
10I _{tr}	1.0	0.23	0.17	0.09	0.03	0.08	0.15	0.20
I _{max}	1.0	0.25	0.22	0.10	0.03	0.07	0.15	0.25
I _{tr}	0.5ind	0.07	0.08	0.07	0.06	0.08	0.12	-0.28
10I _{tr}	0.5ind	0.11	0.08	0.06	0.06	0.06	0.06	-0.10
I _{max}	0.5ind	0.09	0.06	0.05	0.05	0.05	0.07	0.13
L3								
I _{tr}	1.0	0.25	0.17	0.10	0.03	0.07	0.12	0.13
10I _{tr}	1.0	0.21	0.15	0.08	0.04	0.08	0.15	0.16
I _{max}	1.0	0.23	0.16	0.09	0.03	0.08	0.15	0.19
I _{tr}	0.5ind	0.08	0.08	0.07	0.08	0.09	0.12	-0.27
10I _{tr}	0.5ind	0.13	0.10	0.07	0.08	0.08	0.10	-0.13
I _{max}	0.5ind	0.11	0.08	0.06	0.02	0.07	0.09	-0.05

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4. Annex of Variants

Product Variant Identification Details:

Type Designation	Description of meter
PM5561	Polyphase, Active Import/ Export (kWh), Transformer Operated, Auxiliary power supply, RS485, Dual Ethernet, 2 digital outputs, 4 digital inputs, ground module METSEPM55GRMD (optional)
PM5661	Polyphase, Active Import / Export (kWh), Transformer Operated, Auxiliary power supply, RS485, Dual Ethernet, 2 digital outputs, 2 digital inputs, 2 residual current measurement inputs, ground module METSEPM55GRMD (optional)
PM5761	Polyphase, Active Import / Export (kWh), Transformer Operated, Auxiliary power supply, RS485, Dual Ethernet, 2 Digital Outputs, 2 digital inputs, 2 residual current measurement inputs, sag-swell detection & waveform capture, ground module METSEPM55GRMD (optional)

Modifications to the meter(s) described according to approval No.**0120/SGS0131** must be notified to the issuing body to confirm the meter(s) continuing compliance to the relevant pattern approval standard(s).

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5. Document Revision History

Issue	Date	Comments
1	14/02/2014	Initial Issue
2	26/11/2014	Non metrology firmware updates
3	3/11/2015	Non metrology firmware updates
4	18/12/2015	Non metrology firmware updates
5	21/07/2017	Non metrology firmware update. Optional ground module METSEPM55GRMD added to approval
6	29/01/2018	Non metrology firmware update
7	04/04/2018	Reissued in accordance with EU Directive 2014/32/EU
8	07/09/2018	Non metrology firmware update
9	29/11/2018	Replaced incorrect CRC number C49B with CRC number 0x148A
10	24/10/2019	Non metrology firmware updates
11	25/11/2020	New firmware versions and checksums update
12	01/03/2021	New firmware versions and checksums update. Added sealing cover for Control / Auxiliary power input terminals. Change of Notified Body reference Issue 1 for SGS Fimko NB 0598 The original approval certificate issued 14/02/2014
1	21/04/2021	Additional models PM5661 & PM5761 added to approval, PM5561, PM5661 and PM5761 assessed to meet the scope of Welmec Guide 11.8
2	24/12/2021	Extended operating temperature range + 70°C
3	28/03/2022	New firmware version 12.0.4 and checksum 0x4288

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END OF CERTIFICATE