



EC Type Examination Certificate Number: **0120/ SGS0131**

Schneider Electric India PVT. Ltd.

44P Electronics City
East Phase
Hosur Road
Bangalore
Kamataka 560100
India

Instrument Identification:

PM5561

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

EC Directive 2004/22/EC

on Measuring Instruments Annex 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 MI-003 of EC Directive 2004/22/EC

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

This certificate is valid for 10 years from 14th February 2014 until 13th February 2024
Issue 1


Certification is based on report number(s)
EMA175578 MID Issue 1 Issued 7th February 2014

Authorised Signature

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	EC-Type Examination Certificate Number:	
	0120/ SGS0131	
	Issue Number: 1	Dated: 14 th February 2014

1. Technical Data

Manufacturer	Schneider Electric
Meter Type	PM5561
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	3P4W, 3P3W
Temperature Range	-25°C to +55°C
Software/ Firmware Version No	OS V10.0.0.0 RS V1.0.2.0 Language V1.0.0.0 OS CRC 9A66
Identification Location	LCD
Bill Of Materials Numbers	PSU Board R63230-828-50-A3 LCD Board R63230-829-50-B2 Comms Board R63230-830-50-E1 Dio Board R63230-831-50-A4
IP Rating	IP51 Front Display Meter body not rated, must be fitted in an IP51 Enclosure
Insulation Protective Class	Class II
LED Pulse Constant	10,000 imp/ kWh
Impulse Voltage Rating	6kV
AC Voltage Rating	4kV
Main Cover Sealing Type	Wire & Crimp
Integrity of meter	Inaccessible without breaking seals
Intended Location of the Meter	Indoor
Type of Register	LCD
Terminal Arrangement(s)	BS

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2. Photographs of Meter

Front View



Rear View



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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 presents 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	-10	5	30	40	55
Imin	1.0	0.23	0.16	0.09	0.02	0.06	0.11
Itr	1.0	0.24	0.17	0.10	0.02	0.05	0.10
10ltr	1.0	0.21	0.15	0.08	0.03	0.08	0.13
Imax	1.0	0.23	0.17	0.10	0.04	0.07	0.13
Itr	0.5ind	0.11	0.10	0.08	0.09	0.11	0.15
10ltr	0.5ind	0.12	0.08	0.06	0.06	0.07	0.08
Imax	0.5ind	0.51	0.08	0.05	0.09	0.05	0.05
Itr	0.8cap	0.11	0.26	0.14	0.06	0.12	0.22
10ltr	0.8cap	0.35	0.24	0.13	0.05	0.12	0.22
Imax	0.8cap	0.10	0.25	0.13	0.05	0.12	0.20
L1							
Itr	1.0	0.20	0.14	0.08	0.03	0.05	0.10
10ltr	1.0	0.20	0.14	0.08	0.02	0.06	0.11
Imax	1.0	0.41	0.15	0.09	0.02	0.06	0.13
Itr	0.5ind	0.15	0.11	0.09	0.10	0.12	0.20
10ltr	0.5ind	0.13	0.09	0.07	0.08	0.09	0.09
Imax	0.5ind	0.12	0.09	0.06	0.06	0.06	0.07
L2							
Itr	1.0	0.24	0.16	0.09	0.03	0.08	0.13
10ltr	1.0	0.23	0.17	0.09	0.03	0.08	0.15
Imax	1.0	0.25	0.22	0.10	0.03	0.07	0.15
Itr	0.5ind	0.07	0.08	0.07	0.06	0.08	0.12
10ltr	0.5ind	0.11	0.08	0.06	0.06	0.06	0.06
Imax	0.5ind	0.09	0.06	0.05	0.05	0.05	0.07
L3							
Itr	1.0	0.25	0.17	0.10	0.03	0.07	0.12
10ltr	1.0	0.21	0.15	0.08	0.04	0.08	0.15
Imax	1.0	0.23	0.16	0.09	0.03	0.08	0.15
Itr	0.5ind	0.08	0.08	0.07	0.08	0.09	0.12
10ltr	0.5ind	0.13	0.10	0.07	0.08	0.08	0.10
Imax	0.5ind	0.11	0.08	0.06	0.02	0.07	0.09

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4. Annex of Variants

Product Variant Identification Details:

Type Designation	Description of meter
Model -	Description
PM5561 -	Poly phase, Active Import/ Export (kWh), Transformer Operated, Auxiliary power supply, RS485, Dual Ethernet, 2 digital outputs, 4 digital inputs

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).

5. Document Revision History

Issue	Date	Comments
1	14/02/2014	Initial Issue