



EU Type Examination Certificate Number: **0120/ SGS0007/R1**

Honeywell Elster Metering Ltd

Tollgate Business Park
Beaconside
Stafford
ST16 3EF

Instrument Identification:

A1120, A1140, A1160 Electricity Meter, LM***_**
Poly Phase, Credit, Active Import/ Export, Multi-rate, Direct Connected/
Transformer Operated, Electricity Meter**

Instrument Traceable Number

0120/ SGS0007

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 for 10 years from 6th June 2017 until 5th June 2027
Issue 2


Certification is based on report number(s): EMA106670/ 1/ CT dated 13th August 2007, EMA106670/ 1/ WC dated 13th August 2007
EMA130853 dated 26th November 2009, EMA137547 dated 18th August 2010, EMA180052/1 dated 19th September 2013,
EMA180052/1/IEC dated 4th April 2014, EMA180052/2 dated 18th August 2014, EMA198098/1 dated 6th February 2015
EMA205841/1 dated 8th July 2015, EMA239191/1/DC/MID dated 31st May 2017
EMA239191/1/DC/MID dated 6th June 2017, EMA239191/1/CT/MID dated 6th June 2017

Authorised Signature

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| | Issue Number: 2 | Dated: 11 th August 2017 |

1. Technical Data

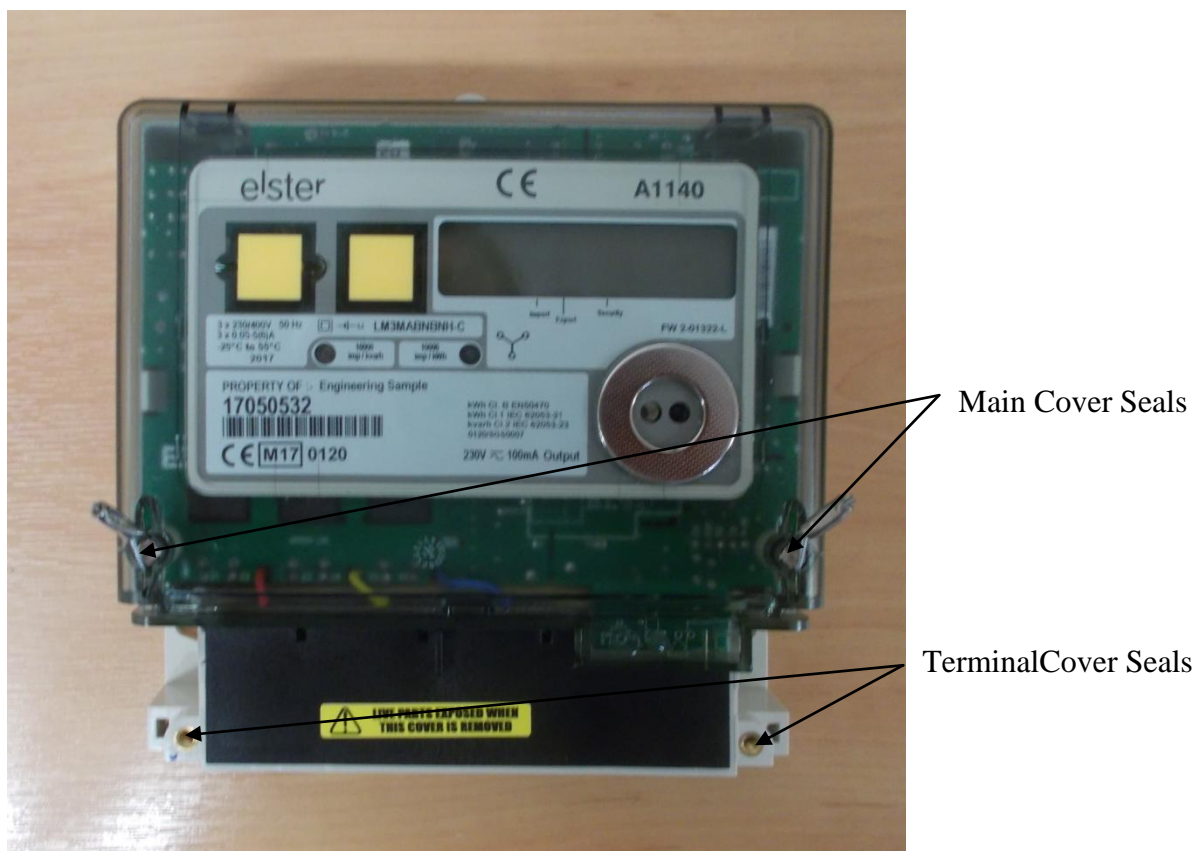
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|--|--|
| Manufacturer | Honeywell Elster Metering Ltd |
| Meter Type | A1120, A1140, A1160 |
| Voltage Rating (<i>Un</i>) | A1120 & A1140 Direct Connection 220-240V (L-N), 380-415V (L-L) 127-139V (L-N), 220-240V (L-L) 105-127V (L-N), 180-220V (L-L) 105-127V (L-L) (LM2***** only) A1160 Direct Connection 220-240V (L-N), 380-415V (L-L) A1120 & A1140 Transformer Operated 220-240V (L-N), 380-415V (L-L) 127-139V (L-N), 220-240V (L-L) 105-127V (L-N), 180-220V (L-L) 105-127V (L-L) (LM2***** only) |
| Current Rating (<i>I_{min}</i> – <i>I_{ref}</i> (<i>I_{max}</i>)) | A1120 & A1140 Direct Connection 0.25-5(100)A (Any multiple of <i>I_{ref}</i> up to <i>I_{max}</i>) A1160 Direct Connection 1-20(160)A (Any multiple of <i>I_{ref}</i> up to <i>I_{max}</i>) A1120 & A1140 Transformer Operated 0.01-1(10)A (Any combination of <i>I_n</i> at 1, 1.5, 2, 2.5, 5 with <i>I_{max}</i> of meter at 1.2 <i>I_n</i> , 1.5 <i>I_n</i> and 2 <i>I_n</i>) |
| Frequency (<i>Fn</i>) | 50Hz |
| Active Accuracy Class (<i>kWh</i>) | A or B(kWh) |
| Type of circuit | A1120, A1140 1p2w, 1p3w, 1p4w, 2p of 3p4w, 2p3w, 3p3w, 3p4w. A1160 3p4w |
| Temperature Range | A1120, A1140: -25°C to +55°C A1160: -40°C to +70°C |
| Software/ Firmware Version No's | A1120/A1140: 2-01178-Q. CRC DA2E 2-01322-L. CRC 3872 2-01340-H. CRC 0F34 2-01398-A. CRC 455(2-01345-A. CRC AA91 A1160: 2-01397-G. CRC N0EC |
| Identification Location | Nameplate |
| Bill Of Materials Number | JG05241, JG05241A, JG05242, JG05243, JG05244, JG05246, JG05247, JG05248, JG052412, JG052413, JG052414, JG052422, JG052423, JG052424, JG052432, JG052433, JG052434, JG0524100 |
| IP Rating | IP54 |


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|--|---|
| Insulation Protective Class | Class II |
| LED Pulse Constant | CT: 10000imp/ kWh DC: 1000imp/kWh |
| Impulse Voltage Rating | 4kV/ 6kV/ 12kV |
| AC Voltage Rating | 2kV/ 4kV |
| Main Cover Sealing Type | A1120 & A1140 - 2 x wire and crimp A1160 - 2 x wire and crimp or optional 2 x shear head screws |
| Integrity of meter | Inaccessible without breaking seals |
| Intended Location of the Meter | A1120, A1140: Indoor A1160: Indoor or Outdoor |
| Type of Register | LCD |
| Terminal Arrangement(s) | DIN |
| Location of Manufacturers Address | Associated Documents |

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2. Example of Meter and Sealing Plan



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3. Photographs of Meter Name Plates

A1120




A1140



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A1160



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4. 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:-

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


where

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

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Direct Connected

| | | Influence Factors for Temperature. Frequency & Voltage | | | | | |
|-------------------|--------|--|-------|------|------|------|------|
| Current | PF Cos | -25°C | -10°C | 5°C | 30°C | 40°C | 55°C |
| I _{min} | 1.0 | 0.45 | 0.37 | 0.23 | 0.30 | 0.53 | 0.71 |
| I _{tr} | 1.0 | 0.42 | 0.31 | 0.16 | 0.18 | 0.34 | 0.51 |
| 10I _{tr} | 1.0 | 0.37 | 0.33 | 0.16 | 0.07 | 0.19 | 0.36 |
| I _{max} | 1.0 | 0.37 | 0.31 | 0.19 | 0.02 | 0.07 | 0.21 |
| I _{tr} | 0.5ind | 1.30 | 0.53 | 0.16 | 0.13 | 0.46 | 0.66 |
| 10I _{tr} | 0.5ind | 1.13 | 0.55 | 0.10 | 0.09 | 0.29 | 0.44 |
| I _{max} | 0.5ind | 0.76 | 0.35 | 0.07 | 0.09 | 0.05 | 0.17 |
| I _{tr} | 0.8cap | 1.23 | 0.73 | 0.22 | 0.17 | 0.22 | 0.37 |
| 10I _{tr} | 0.8cap | 1.09 | 0.65 | 0.18 | 0.10 | 0.15 | 0.31 |
| I _{max} | 0.8cap | 0.96 | 0.63 | 0.26 | 0.06 | 0.04 | 0.16 |
| L1 | | | | | 0.00 | 0.00 | 0.00 |
| I _{tr} | 1.0 | 0.53 | 0.39 | 0.21 | 0.37 | 0.46 | 0.62 |
| 10I _{tr} | 1.0 | 0.45 | 0.30 | 0.14 | 0.15 | 0.23 | 0.39 |
| I _{max} | 1.0 | 0.42 | 0.29 | 0.15 | 0.02 | 0.09 | 0.23 |
| I _{tr} | 0.5ind | 1.35 | 0.44 | 0.21 | 0.79 | 0.89 | 1.03 |
| 10I _{tr} | 0.5ind | 1.22 | 0.53 | 0.12 | 0.28 | 0.43 | 0.57 |
| I _{max} | 0.5ind | 0.83 | 0.37 | 0.04 | 0.09 | 0.16 | 0.28 |
| L2 | | | | | | | |
| I _{tr} | 1.0 | 0.48 | 0.34 | 0.16 | 0.40 | 0.44 | 0.59 |
| 10I _{tr} | 1.0 | 0.45 | 0.29 | 0.15 | 0.13 | 0.21 | 0.39 |
| I _{max} | 1.0 | 0.42 | 0.30 | 0.18 | 0.01 | 0.08 | 0.23 |
| I _{tr} | 0.5ind | 1.15 | 0.35 | 0.30 | 0.66 | 0.77 | 0.86 |
| 10I _{tr} | 0.5ind | 1.08 | 0.28 | 0.18 | 0.18 | 0.31 | 0.45 |
| I _{max} | 0.5ind | 0.71 | 0.14 | 0.16 | 0.08 | 0.04 | 0.13 |
| L3 | | | | | | | |
| I _{tr} | 1.0 | 0.48 | 0.35 | 0.21 | 0.34 | 0.39 | 0.56 |
| 10I _{tr} | 1.0 | 0.44 | 0.30 | 0.16 | 0.09 | 0.17 | 0.34 |
| I _{max} | 1.0 | 0.39 | 0.29 | 0.18 | 0.02 | 0.06 | 0.22 |
| I _{tr} | 0.5ind | 1.34 | 0.32 | 0.19 | 0.54 | 0.64 | 0.76 |
| 10I _{tr} | 0.5ind | 1.23 | 0.45 | 0.12 | 0.12 | 0.25 | 0.40 |
| I _{max} | 0.5ind | 0.85 | 0.32 | 0.10 | 0.10 | 0.03 | 0.11 |

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Transformer Operated

| | | Influence Factors for Temperature. Frequency & Voltage | | | | | |
|-------------------|--------|--|------|------|------|------|------|
| Current | PF Cos | -25 | -10 | 5 | 30 | 40 | 55 |
| I _{min} | 1.0 | 0.26 | 0.23 | 0.20 | 0.19 | 0.20 | 0.26 |
| I _{tr} | 1.0 | 0.14 | 0.13 | 0.08 | 0.04 | 0.06 | 0.15 |
| 10I _{tr} | 1.0 | 0.13 | 0.09 | 0.04 | 0.02 | 0.04 | 0.12 |
| I _{max} | 1.0 | 0.15 | 0.10 | 0.04 | 0.02 | 0.04 | 0.12 |
| I _{tr} | 0.5ind | 1.27 | 0.96 | 0.14 | 0.13 | 0.08 | 0.20 |
| 10I _{tr} | 0.5ind | 1.05 | 0.68 | 0.11 | 0.03 | 0.02 | 0.09 |
| I _{max} | 0.5ind | 1.40 | 0.80 | 0.24 | 0.04 | 0.02 | 0.09 |
| I _{tr} | 0.8cap | 1.05 | 0.57 | 0.13 | 0.04 | 0.04 | 0.11 |
| 10I _{tr} | 0.8cap | 0.64 | 0.40 | 0.09 | 0.03 | 0.05 | 0.13 |
| I _{max} | 0.8cap | 0.80 | 0.48 | 0.16 | 0.03 | 0.06 | 0.13 |
| L1 | | | | | 0.00 | 0.00 | 0.00 |
| I _{tr} | 1.0 | 0.74 | 0.28 | 0.72 | 0.28 | 0.10 | 0.30 |
| 10I _{tr} | 1.0 | 0.37 | 0.22 | 0.10 | 0.04 | 0.10 | 0.21 |
| I _{max} | 1.0 | 0.39 | 0.23 | 0.11 | 0.04 | 0.09 | 0.20 |
| I _{tr} | 0.5ind | 1.93 | 1.61 | 0.36 | 0.11 | 0.11 | 0.10 |
| 10I _{tr} | 0.5ind | 1.34 | 0.71 | 0.06 | 0.04 | 0.06 | 0.17 |
| I _{max} | 0.5ind | 1.65 | 1.03 | 0.43 | 0.05 | 0.02 | 0.18 |
| L2 | | | | | | | |
| I _{tr} | 1.0 | 0.36 | 0.37 | 0.61 | 0.35 | 0.35 | 0.34 |
| 10I _{tr} | 1.0 | 0.05 | 0.04 | 0.04 | 0.04 | 0.05 | 0.09 |
| I _{max} | 1.0 | 0.08 | 0.04 | 0.04 | 0.04 | 0.05 | 0.10 |
| I _{tr} | 0.5ind | 1.93 | 0.92 | 0.17 | 0.16 | 0.19 | 0.16 |
| 10I _{tr} | 0.5ind | 1.15 | 0.75 | 0.13 | 0.05 | 0.04 | 0.11 |
| I _{max} | 0.5ind | 1.44 | 0.78 | 0.12 | 0.02 | 0.03 | 0.10 |
| L3 | | | | | | | |
| I _{tr} | 1.0 | 0.21 | 0.20 | 0.21 | 0.23 | 0.21 | 0.22 |
| 10I _{tr} | 1.0 | 0.01 | 0.02 | 0.02 | 0.01 | 0.03 | 0.07 |
| I _{max} | 1.0 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.07 |
| I _{tr} | 0.5ind | 1.76 | 0.78 | 0.23 | 0.28 | 0.26 | 0.25 |
| 10I _{tr} | 0.5ind | 0.69 | 0.62 | 0.17 | 0.05 | 0.03 | 0.02 |
| I _{max} | 0.5ind | 1.19 | 0.63 | 0.18 | 0.02 | 0.03 | 0.04 |

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5. Annex of Variants

Product Variant Identification Details:

POLYPHASE (A1120/A1140) MODEL CODE

| V_{ref} | | I_b | I_{max} |
|-----------|-----|-------|-----------|
| L-L | L-N | | |
| | | | |

MODEL


TYPE (nameplate)

example: L M 3 A A B N N B B N N B - A N N N

PRODUCT/TERMINATION

Polyphase, BS/DIN termination

SERVICE TYPE

3Ph 4W for use on:  (Not 3Ph 3W)

3Ph 3W  Direct Connected and 5-10A CT versions only

CURRENT RANGE

Direct Connected 20A – * (* is any multiple of I_b up to 100A maximum)

Direct Connected 10A – * (* is any multiple of I_b up to 100A maximum)

Direct Connected 5A – * (* is any multiple of I_b up to 100A maximum)

CT Operated 1A – 2A

CT Operated 5A – 6/10A

CT Operated 1A – 10A

Direct Connected (10A – 100A) -40°C to 60°C operation

VOLTAGE

220 – 240V (L – N) (See note 2 for Ref voltage ranges)

220 – 240V (L – L) (See note 2 for Ref voltage ranges) (LM2***** variants only)

105 – 127V (L – N) (See note 2 for Ref voltage ranges)

105 – 127V (L – L) (See note 2 for Ref voltage ranges) (LM2***** variants only)

ACCURACY CLASS

50 Hz Cl.0.5 kWh, Cl.2 kvarh (IEC 62053-22, 23 see note 1) Cl.C kWh, (EN 50470-3)

Note:- Class 0.5 or Class C is applicable to 5-6/10A “3Ph 4W and 3Ph3W variant only

50 Hz Cl.1 kWh, Cl.2 kvarh (IEC 62053-21, 23 see note 1) Cl.B kWh, (EN 50470-3)

50 Hz Cl.2 kWh, Cl.3 kvarh (IEC 62053-21, 23 see note 1) Cl.A kWh, (EN 50470-3)

60 Hz Cl.1 kWh, Cl.2 kvarh (IEC 62053-21, 23 see note 1) Not OFGEM / MID Approved

60 Hz Cl.2 kWh, Cl.3 kvarh (IEC 62053-21, 23 see note 1) Not OFGEM / MID Approved

HARDWARE – SWITCHES

No tamper detect switches

Two tamper detect switches

Terminal cover tamper detect switch and CT ratio programming protection switch.

HARDWARE – BUTTONS

No buttons

Two buttons

Backlit LCD, with No buttons

Backlit LCD, with Two buttons

HARDWARE – BATTERY

No external battery connection

External 9V Battery connection. Note! External battery module cannot be fitted when an RS232 comms module is fitted.

Supercapacitor/External battery/ RS485 module connection. (Iranian orders only)

OPERATIONAL MODES

Import kWh only

Import kWh, Q1 and Q4 kvarh

Import kWh, Q1, Q2, Q3, Q4 kvarh and Imp kVAh

Imp/Exp kWh

Imp/Exp kWh, Q1, Q2, Q3, and Q4 kvarh

Imp/Exp kWh and Imp/Exp kVAh

Imp/Exp kWh, Q1, Q2, Q3, Q4 kvarh and Imp/Exp kVAh

Import kWh only (Power Flow Insensitive)

Import kWh, Q1 and Q4 kvarh (Power Flow Insensitive)

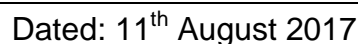
Import kWh, Q1, Q2, Q3, Q4 kvarh and Imp kVAh (Power Flow Insensitive)


Import kWh only (Theft Resistant Measurement) – 3Ph 4W variants only

Import kWh, Q1 and Q4 kvarh (Theft Resistant Measurement) – 3Ph 4W variants only

Import kWh, Q1, Q2, Q3, Q4 kvarh and Imp kVAh (Theft Resistant Measurement) – 3Ph 4W variants only

TARIFFS

EU Type Examination Cert.

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POLYPHASE A1160 MODEL CODE

| | | | | |
|------------------------|-----|----------------------|------------------------|--------------|
| V_{ref} | | I_b | I_{max} | MODEL |
| L-L | L-N | | | |
| | | | | |


TYPE (nameplate)

example: L P 3 A A B N B N H M V R B - A H N N

PRODUCT/TERMINATION

Polyphase, BS/DIN termination

SERVICE TYPE

3Ph 4W for use on:  Direct Connected only

CURRENT RANGE

Direct Connected 20A – * (* is any multiple of I_b up to 160A maximum)

VOLTAGE

220 – 240V (L – N) (See note 2 for Ref voltage ranges)

ACCURACY CLASS

50 Hz Cl.1 kWh, Cl.2 kvarh (IEC 62053-21, 23 see note 1) Cl.B kWh, (EN 50470-3)

HARDWARE – SWITCHES

No tamper detect switches

Two tamper detect switches (Terminal Cover & Main Cover)

HARDWARE – BUTTONS

Two buttons

HARDWARE – BATTERY

No external battery connection

External 9V Battery connection. Note! An external battery module cannot be fitted when a comms module is fitted.

OPERATIONAL MODES

Imp/Exp kWh, Q1, Q2, Q3, Q4 kvarh and Imp/Exp kVAh

Import kWh, Q1, Q2, Q3, Q4 kvarh and Imp kVAh (Theft Resistant Measurement)

TARIFFS

A1160 Multi Rate – with load profile

A1160 Multi Rate with load profile and Password Protected Register Zeroing and Zero Level Time Shift (Not for MID use)

A1160 Multi Rate – with load profile and instrumentation profile

A1160 Multi Rate with load profile and Instrumentation profile and Password Protected Register Zeroing and Zero Level Time Shift (Not for MID use)

Auxiliary Outputs

No Output

100mA Relay output, floating, 2 aux terminals. 12 kV isolation (Configurable pulse duration/value) 230V AC, DC

100mA Relay output, floating, 2 aux terminals. 12 kV isolation (Configurable pulse duration/value) 230V AC, DC. Auxiliary 230V output (Phase 'C' + Neutral)

COMMUNICATIONS

No Serial Comms.

RS232 Serial comms. Note! A comms module cannot be fitted when an external battery module is fitted.

OTHER OPTIONS

Short Terminal Cover

Short Terminal Cover and Main Cover with voltage disconnect protection

Standard (Extended) Terminal Cover

Standard (Extended) Terminal Cover with cut-out

Standard (Extended) Terminal Cover and Main Cover with voltage disconnect protection

Standard (Extended) Terminal Cover with cut out and Main Cover with voltage disconnect protection

FEATURE SET

8 TOU Registers, 4 MD Registers, 24 Historical Registers, DSM, DLS time stamps, 12 external registers, daily billing, per phase registration, tamper flag in Load Profile. **Note!** This feature set requires the use of SmartSet version 1.1 or later

8 TOU Registers, 4 MD Registers, 24 Historical Registers, DSM, DLS time stamps, 12 external registers, daily billing, per phase registration, tamper flag in Load Profile. **Note!** This feature set requires the use of SmartSet version 1.1 or later. **(For multi-drop applications)**

REVISION SUFFIX

Firmware 2-01397-E (Feature set A)

Firmware 2-01397-F

SPECIAL ADDITIONS – FIRMWARE

None

Additional Firmware Function (Phase angle definition as A1700i)

SPECIAL ADDITIONS – HARDWARE


None (Socket Head M8 main terminal screws and shear head main cover screws)

Slotted Head M8 main terminal screws and shear head main cover screws


Socket Head M8 main terminal screws sealed main cover screws

Slotted Head M8 main terminal screws sealed main cover screws

MID-B-06E Rev 10

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Modifications to the meter(s) described according to approval No.**0120/SGS0007/R1** 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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3. Document Revision History

| Issue | Date | Comments |
|-------|------------|--------------------------------|
| 1 | 07/06/2017 | Re certification initial issue |
| 2 | 11/08/2017 | Manufacturers name corrected |

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