

IGEM/GM/PRS/50 Edition 1
Communication 1811

Founded 1863
Royal Charter 1929
Patron
Her Majesty the Queen

Meter and converter serial numbering and model names

DRAFT FOR COMMENT

- 1 This draft Standard IGEM/GM/PRS/50 Edition 1 has been prepared by a Panel under the chairmanship of Mark Burrows.
- 2 This Draft for Comment is presented to Industry for comments, which are required by 20th July 2018, and in accordance with the attached Comment Form.
- 3 This is a draft document and should not be regarded or used as a fully approved and published Standard. It is anticipated that amendments will be made prior to publication.
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SECTION 1 : INTRODUCTION

- 1.1 This Specification is part of a series of Institution of Gas Engineers and Managers (IGEM) publications, providing a specification for gas meter serial numbering.
- 1.2 This Specification has been drafted by an IGEM Working Group, appointed and subsequently approved by IGEM's Gas Measurement Committee, and has been approved by IGEM's Technical Coordinating Committee on behalf of the Council of IGEM.
- 1.3 This Specification makes use of the term "must", "shall" and "should" when prescribing particular requirements.
- the term "must" identifies a requirement by law in Great Britain (GB) at the time of publication
 - the term "shall" prescribes a requirement which, it is intended, will be complied with in full and without deviation
 - the term "should" prescribes a requirement which, it is intended, will be complied with unless, after prior consideration, deviation is considered to be acceptable.
- Such a term may have different meanings when used in legislation, or Health and Safety Executive (HSE) Approved Codes of Practice (ACoPs) or guidance, and reference needs to be made to such statutory legislation or official guidance for information on legal obligations.
- 1.4 New and improved products, materials or production methods may be adopted prior to this Specification being updated. Amendments to this Specification will be issued when necessary and their publication will be announced in the Journal of IGEM and elsewhere as appropriate.
- 1.5 Requests for interpretation of this Specification in relation to matters within its scope, but not precisely covered by the current text, are to be addressed to Technical Services, IGEM, IGEM House, 26 & 28 High Street, Kegworth, Derbyshire, DE74 2DA or technical@igem.org.uk. Such requests will be submitted to the relevant Committee. Any advice given by or on behalf of IGEM does not imply acceptance of any liability, and does not relieve any party of their obligations.
- 1.6 This Specification was published in xxxxxx 2018.

SECTION 2 : SCOPE

- 2.1 This Specification defines the requirements for gas meter and converter serial numbering and model names.
- 2.2 This Specification sets out the requirements for gas meters and volume converters with flow rates not exceeding $99,990 \text{ m}^3 \text{ h}^{-1}$.
- 2.3 All pressures quoted in this Specification are gauge pressure unless otherwise indicated.
- 2.4 *Italicised text is informative and does not represent formal requirements.*
- 2.5 Appendices are informative and do not represent formal requirements unless specifically referenced in the main sections via the prescriptive terms “must”, “shall” or “should”.

SECTION 3 : LEGAL AND ALLIED CONSIDERATIONS

- 3.1 This Specification is set out against a background of Legislation in force in GB at the time of publication. The devolution of power to the Scottish, Welsh and Northern Ireland Assemblies means that there may be variations to the Legislation described below for each of them and consideration of their particular requirements must be made. Similar considerations are likely to apply in other countries where reference to appropriate national Legislation is necessary.
- 3.2 All relevant Legislation must be applied and relevant ACoPs, official Guidance and referenced codes, standards, etc. have to be taken into account.
- 3.3 Unless otherwise stated, the current editions of Legislation and standards apply.
- 3.4 In the absence of specific Legislation, it is essential that installations are designed, constructed, installed, operated and maintained so as to be safe.
- 3.5 The Legislation appropriate to any installation will depend largely upon its location. Advice will need to be sought from the relevant Authorities.
- 3.6 Appendix 2 lists Legislation, Guidance Notes, Standards etc. which are identified within this Specification as well as further items of Legislation that may be applicable. Where British Standards, etc. are quoted, equivalent national or international standards, etc. equally may be appropriate.

SECTION 4 : SERIAL NUMBERS FOR GAS METERS AND CONVERTERS

4.1 INTRODUCTION

4.1.1 This document sets out a serial number format that shall be used by the manufacturers of gas meters and converters, with the intention of harmonising with as many meter asset and billing systems as possible.

4.1.2 Manufacturers shall obtain a single letter designation to be included in the serial number formats set out in this Section, which will be allocated by UK Metering Forum (UKMF) (see Appendix 5).

Note: The list of manufacturer single letter designations at time of publication is contained in Appendix 5.

4.2 GAS METERS FOR CAPACITY NOT EXCEEDING $6 \text{ m}^3 \text{ h}^{-1}$

4.2.1 Diaphragm meters

For a $6 \text{ m}^3 \text{ h}^{-1} Q_{\text{max}}$ meter, the serial number shall have 14 characters of the format shown in the example:

G4 M 0123456 YY VV

where:

G4	=	metric diaphragm meter, $6 \text{ m}^3 \text{ h}^{-1} Q_{\text{max}}$
M	=	meter manufacturer's single letter designation
0123456	=	seven digit sequential serial number of the meter, recommencing at 0000001 on 1st January each year and including any leading zeros
YY	=	year of manufacture
VV	=	manufacturer version code e.g. diaphragm material code, software, hardware version or other options.

As an example, the 1003rd G4U6 meter in 2018 will carry the serial number:

G6M00010031801

4.2.2 Electronic meters (for example, ultrasonic and thermal mass meter types)

For a $6 \text{ m}^3 \text{ h}^{-1} Q_{\text{max}}$ meter, the serial number shall have 14 characters of the format shown in the example:

E6 M 0123456 YY VV

Where:

E6	=	metric meter type, $6 \text{ m}^3 \text{ h}^{-1} Q_{\text{max}}$
M	=	meter manufacturer's single letter designation
0123456	=	seven digit sequence number, recommencing at 0000001 on 1st January each year and including any leading zeros
YY	=	year of manufacture
VV	=	manufacturer version code e.g. diaphragm material code, software, hardware version or other options.

As an example, the 1003rd MMU6 meter in 2018 will carry the serial number:

E6M00010031801

4.3 GAS METERS WITH Q_{\max} EXCEEDING $6 \text{ m}^3 \text{ h}^{-1}$ AND NOT EXCEEDING $999 \text{ m}^3 \text{ h}^{-1}$

4.3.1 For meters of $6 \text{ m}^3 \text{ h}^{-1} < Q_{\max} \leq 999 \text{ m}^3 \text{ h}^{-1}$, the serial number shall have 14 characters of the format shown in the example, except for rotary positive displacement (RPD) or turbine meters:

M 016 M 01234 YY V 6

where:

- M = metric (Note R = refurbished)
- 016 = Q_{\max} in $\text{m}^3 \text{ h}^{-1}$
- M = meter manufacturer's single letter designation
- 01234 = five digit sequential serial number, recommencing at 00001 on 1st January each year and including any leading zeros
- YY = year of manufacture
- V = manufacturer version code e.g. diaphragm material code, software, hardware version or other options
- 6 = number of readable dials on the meter in whole m^3 .

As an example, the 1003rd metric 16 Q_{\max} meter in 2018 will carry the serial number:

M016M0100318A6

4.3.2 In addition, the meter shall have a five-digit or six-digit model number of the form:
M D A 16

where:

- M = metric
- D = diaphragm meter or E = electronic meter
- M = meter manufacturer's code letter, as allocated by UKMF
- 16 = Q_{\max} in $\text{m}^3 \text{ h}^{-1}$.

4.4 ROTARY POSITIVE DISPLACEMENT (RPD) METERS WITH CAPACITY NOT EXCEEDING $9999 \text{ m}^3 \text{ h}^{-1}$

4.4.1 The serial number shall have 14 characters in the format shown in the example:
M 0160 D 1234 YY V8

Where:

- M = metric meter
- 0160 = Q_{\max} in $\text{m}^3 \text{ h}^{-1}$
- M = meter manufacturer's single letter designation
- 1234 = four digit sequence number, recommencing at 0001 on 1st January each year and including any leading zeros
- YY = year of manufacture
- V = manufacturer version code e.g. material code, software, hardware version or other options
- 8 = number of readable dials on the meter in whole m^3 .

As an example, the 1003rd metric 160 Q_{\max} meter in 2018 will carry the serial number:

M0160M100318B8

4.4.2 The model number shall have a maximum of 10 characters in the format shown in the example:

M R D 1600 VV D

Where:

M	=	metric
R	=	RPD meter type
M	=	meter manufacturer's single letter designation
1600	=	Q_{\max} in $\text{m}^3 \text{h}^{-1}$ (this may occupy fewer digits where necessary)
VV	=	Meter manufacturer's design reference code (this may occupy two digits where the manufacturer's range requires only 4 digits for Q_{\max} , and may be omitted altogether)
D	=	Connection size:
A	=	40 mm (1½ in)
B	=	50 mm (2 in)
C	=	80 mm (3 in)
D	=	100 mm (4 in)
E	=	150 mm (6 in)
F	=	200 mm (8 in)
G	=	250 mm (10 in)
H	=	300 mm (12 in)
J	=	400 mm (16 in)
K	=	500 mm (20 in)
L	=	600 mm (24 in).

4.5 **TURBINE METERS WITH CAPACITY NOT EXCEEDING 99999 $\text{m}^3 \text{h}^{-1}$**

4.5.1 The serial number shall have 14 characters in the format shown in the example:

M 00650 N 123 YY V8

Where:

M	=	Metric meter
00650	=	Q_{\max} in $\text{m}^3 \text{h}^{-1}$
M	=	meter manufacturer's single letter designation
123	=	three digit sequence number, recommencing at 001 on 1st January each year and including any leading zeros
YY	=	year of manufacture
V	=	manufacturer version code e.g. material code, software, hardware version or other options
8	=	number of readable dials on the meter in whole m^3 .

As an example, the 103rd metric 650 Q_{\max} meter in 2018 will carry the serial number:

M00650M10318C8

4.5.2 The manufacturer shall designate the meter with a model number in the following format. There shall be a maximum of 10 characters in the type coding:

M T N 00650 V D

Where:

M	=	metric
T	=	turbine meter
M	=	meter manufacturer's single letter designation
00650	=	Q_{\max} in $\text{m}^3 \text{h}^{-1}$ (this may occupy fewer digits where necessary)
V	=	Meter manufacturer's design reference code (this may occupy two digits where the manufacturer's range requires only 4 digits for Q_{\max} , and may be omitted altogether)
D	=	Connection size:
A	=	40 mm (1½ in)
B	=	50 mm (2 in)
C	=	80 mm (3 in)
D	=	100 mm (4 in)
E	=	150 mm (6 in)
F	=	200 mm (8 in)
G	=	250 mm (10 in)
H	=	300 mm (12 in)
J	=	400 mm (16 in)
K	=	500 mm (20 in)
L	=	600 mm (24 in).

4.6 **ELECTRONIC METERS WITH CAPACITY NOT EXCEEDING $99999 \text{ m}^3 \text{h}^{-1}$ (for example ultrasonic and thermal mass meter types)**

4.6.1 The serial number shall have 14 characters in the format shown in the example:

M 00650 M 012 YY V 8

Where:

M	=	Metric meter type
00650	=	Q_{\max} in $\text{m}^3 \text{h}^{-1}$
M	=	meter manufacturer's single letter designation
012	=	three digit sequence number, recommencing at 001 on 1st January each year and including any leading zeros
YY	=	year of manufacture
V	=	manufacturer version code e.g. material code, software, hardware version or other options
8	=	number of readable dials on the meter in whole m^3 .

As an example, the 103rd metric 650 Q_{\max} meter in 2018 will carry the serial number:

M0650M10318D8

4.6.2 The manufacturer shall designate the meter with a model number in the following format. There shall be a maximum of 10 characters in the type coding:

M U N 00650 V L

Where:

- M = metric meter type
- U = ultrasonic meter (other letters may be acceptable)
- M = meter manufacturer's single letter designation
- 00650 = Q_{\max} in $\text{m}^3 \text{h}^{-1}$ (this may occupy fewer digits where necessary)
- V = Meter manufacturer's design reference code (this may occupy two digits where the manufacturer's range requires only 4 digits for Q_{\max} , and may be omitted altogether)
- D = Connection size:
 - A = 40 mm (1½ in)
 - B = 50 mm (2 in)
 - C = 80 mm (3 in)
 - D = 100 mm (4 in)
 - E = 150 mm (6 in)
 - F = 200 mm (8 in)
 - G = 250 mm (10 in)
 - H = 300 mm (12 in)
 - J = 400 mm (16 in)
 - K = 500 mm (20 in)
 - L = 600 mm (24 in).

4.7 VOLUME CONVERSION DEVICES

4.7.1 The serial number shall have 14 characters in the format shown in the example:

C P M 0123456 YY VV

Where:

- C = Converter
- P = Type of converter - T = Temperature only
 P = Pressure and Temperature
 Z = Pressure, Temperature and Compressibility
 C = Pressure, Temperature, Compressibility and Error Correction
- M = meter manufacturer's single letter designation
- 0123456 = seven digit sequential serial number, recommencing at 0000001 on 1st January each year and including any leading zeros
- YY = year of manufacture
- VV = manufacturer version code e.g. material code, software, hardware version or other options.

As an example, the 1003rd converter with pressure, temperature and compressibility in 2018 will carry the serial number:

CZM100318AC

SECTION 5 : SERIAL NUMBER MARKING

5.1 LABELLING

5.1.1 The meter serial number shall be in the format as prescribed in Section 4 for each meter and converter type.

Where the manufacturer has multiple production lines producing the same design of meter or converter, the manufacturer shall either record which were produced on which production lines or shall mark them to identify the production line where they were assembled.

5.1.2 Markings shall be made directly onto the casing (see clause 5.1.3) or on a label (see clause 5.1.4). Upper case lettering shall have a character height of not less than 3 mm and a stroke width of not less than 0.2 mm. Lower case lettering etc. shall be in proportion. The label (or markings) shall be located on the front of the gas meter so as to face out when installed in a typical meter box.

5.1.3 Direct markings shall be printed (e.g. ink-jet, laser etching), cast or stamped onto the casing with the markings complying with the legibility and durability requirements of Annex A of BS EN 60730-1.

5.1.4 Labels shall be type 1 to BS 4781 or comply with the legibility and durability requirements of Annex A of BS EN 60730-1.

5.1.5 The serial number shall be marked on the gas meter body in both human readable form and in the form of a machine readable 1D barcode to "Code 128" (Subset A) to BS ISO/IEC 15417 with a width (excluding quiet zones) of 32 mm \pm 5 mm or 2D bar code in either datamatrix form to ISO/IEC 16022 or QR code to ISO/EIC 18004.

5.1.6 Markings and labels shall be able to withstand the humidity test in Appendix 3 and withstand 60°C \pm 5°C for 28 days without signs of lifting or blistering of the label visible to the naked eye and without loss of legibility of the markings.

SECTION 6 : SELECTION OF METERS

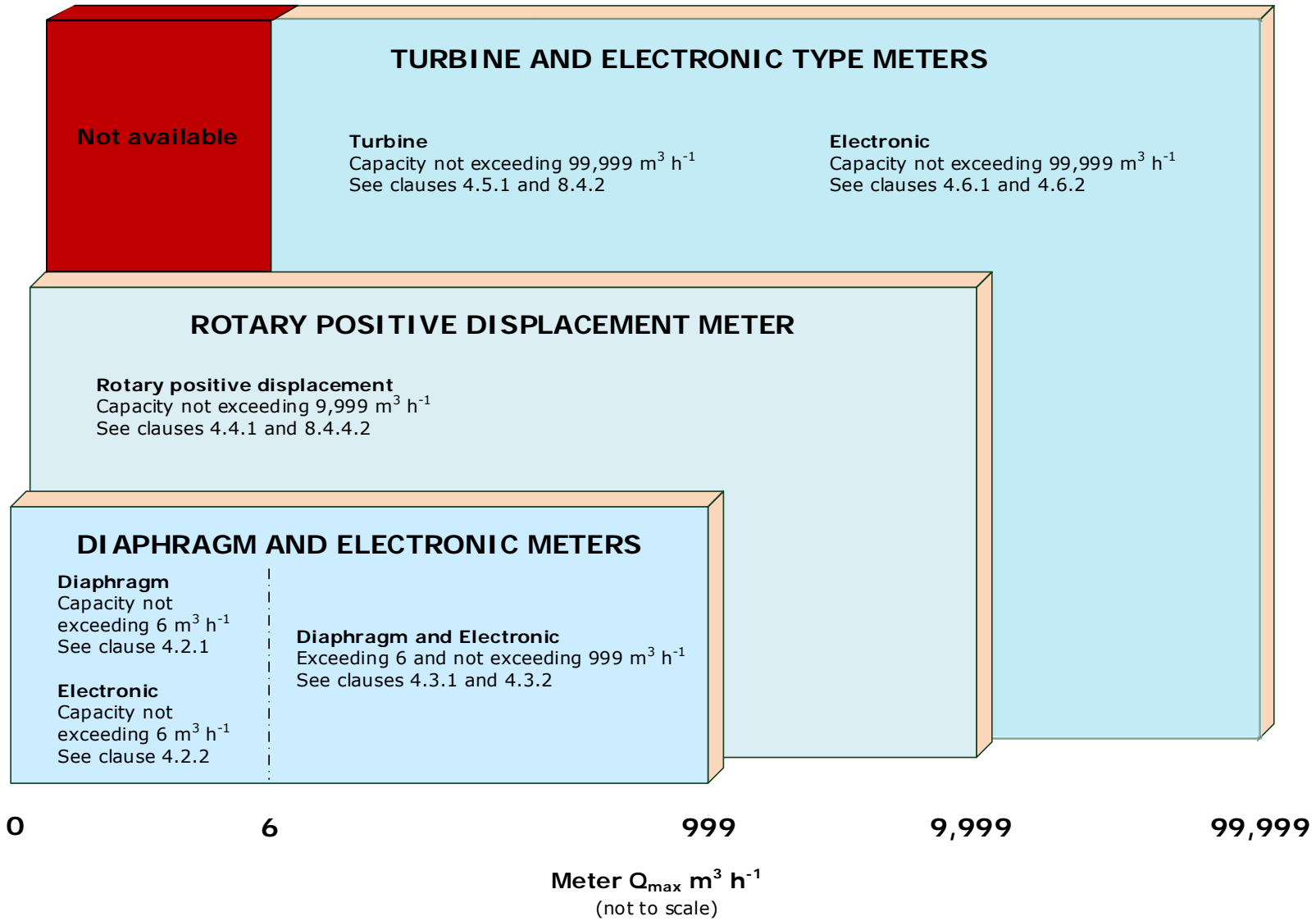


FIGURE 1 - GENERAL GUIDANCE ON SERIAL NUMBER

APPENDIX 1 : GLOSSARY, ACRONYMS, ABBREVIATIONS, UNITS AND SYMBOLS

A1.1 GLOSSARY

Standard definitions are given in IGEN/G/4 which is freely available by downloading a printable version from IGEN’s website www.igem.org.uk.

Standard and legacy gas meter arrangements are given in IGEN/G/1 which is freely available by downloading a printable version from IGEN’s website.

A1.2 ACRONYMS AND ABBREVIATIONS

ACoP	Approved Code of Practice
GB	Great Britain
HSE	Health and Safety Executive
IGEM	Institution of Gas Engineers and Managers
MDD	Market Domain Data
RPD	rotary positive displacement
SPAA	Supply Point Administration Agreement
SPAACO	Supply Point Administration Agreement Company
UKMF	UK Metering Forum.

A1.3 UNITS

mm	millimetre
in	inch
m ³	cubic metre
m ³ h ⁻¹	cubic metre per hour
h	hour
°C	degree Celsius.

A1.4 SYMBOLS

±	plus or minus
%	percentage
≤	less than or equal to
<	less than
Q _{max}	maximum flow rate.

APPENDIX 2 : REFERENCES

This Specification is set out against a background of Legislation in force in GB at the time of publication. Similar considerations are likely to apply in other countries where reference to appropriate national Legislation is necessary. The following list is not exhaustive.

Where British Standards etc. are quoted, equivalent national or international Standards etc. equally may be appropriate.

A2.1 INTERNATIONAL STANDARDS

ISO/IEC 16022	Automatic identification and data capture techniques. Data Matrix bar code symbology specification
ISO/EIC 18004	Automatic identification and data capture techniques. QR Code bar code symbology specification

A2.2 BRITISH STANDARDS

BS 4781	Specification for pressure-sensitive adhesive plastics labels for permanent use
BS 6400-2	Specification for installation, exchange, relocation and removal of gas meters with a maximum capacity not exceeding $6 \text{ m}^3 \text{ h}^{-1}$
BS 8499	Specification for domestic gas meter boxes and meter bracket
BS EN 1359	Diaphragm gas meters
BS EN 12480	Rotary displacement gas meters
BS EN 12261	Turbine gas meters
BS EN 14236	Ultrasonic domestic gas meters
BS EN 12405	Gas meters. Conversion devices. Part 1. Volume conversion
BS EN 60730-1	Automatic electrical controls. General requirements
BS ISO 15417	Information technology. Automatic identification and data capture techniques. Code 128 bar code symbology specification.

A2.3 I G E M

IGEM/G/1 Edition 2	Defining the end of the Network, a meter installation and installation pipework
IGEM/G/4 Edition 2	Definitions for the gas industry

APPENDIX 3 : TYPE TEST ON MARKING AND LABELS

A3.1 RESISTANCE TO HUMIDITY TEST

A3.1.1 Apparatus

The apparatus to consist of a closed cabinet, in which the relative humidity is maintained at not less than 95% by cycling the temperature of a water bath continuously over a range from 42°C to 48°C, thereby ensuring that copious condensation occurs on the samples under test.

A3.1.2 Method

The samples of the markings and labels are to be placed in a chamber at a temperature cycling between 42°C and 48°C and with a relative humidity exceeding 95% for 48 h. They are to be removed from the chamber and examined with the naked eye for signs of corrosion, lifting or blistering of the surface. Then to be left for 24 h at an ambient temperature of 20°C ± 5°C and examined again.

A3.1.3 Performance

The finish or surface is to conform to the requirements in clause 5.1.6.

APPENDIX 4 : INTRODUCTION OF NEW GAS METER MODELS

A4.1 INTRODUCTION OF NEW GAS METER MODELS.

A4.1.1 For a new Gas Meter model to become a primary meter and usable across the UK gas industry, it needs to be of a type that is registered on SPAA. The Supply Point Administration Agreement (SPAA) is administered by SPAACO, which is managed by Electralink.

Registration takes place by means of an update to the Market Domain Data. Market Domain Data is managed by the SPAA change board. Market Domain Data is available from the SPAA website, currently at <https://www.spaa.co.uk/SitePages/SPAA-documents.aspx>

SPAA recently published an update to the process for changes to the MDD.



SPAA Change
Process communicat

There is a link on the page to MDD, and this allows the download of the latest Market Domain Data, the Change Proposal form and any pending changes.

It is suggested that a proposer of a new gas model downloads the most recent version of the MDD, and ensures that:

- 1) The meter or volume converter being proposed does not already have a registration in the MDD; and
- 2) That they have access to a SPAA party, who can act as the sponsor for their new device. A number of SPAA parties are keen to trial new devices, and they are usually happy to act as the sponsor.

A4.1.2 If the meter is from a new manufacturer, then it will be necessary to complete two forms. The first form will be used to add a new manufacturer, and the second will be used to add the meter model.

The change proposal form is an Excel spreadsheet that contains a number of Tabs. Complete the first tab, and then complete the other tab as necessary.

A new meter manufacturer needs to search through the list of codes in use by meter manufacturers and volume converter manufacturers, and determine a three-letter code that they would like to use as their manufacturer code.

Manufacturer codes are collected in the "MDD General" Spreadsheet, in the "MDD General" tab. Search for "A0060" in column A to find the start of the list.

(If possible, the manufacturer is advised to then register this code with the Flag Association, or align their proposed code to their FLAG Identifier. The Flag Association can be contacted at <http://www.dlms.com/flag/> and this is administered by BEAMA Ltd in the UK.)

Section 4) MARKET PARTICIPANT DETAILS

Data Complete - thank you

The MDD Change Process can be used to add new market participants to, or delete old market participants from, the current version of the RGMA Market Domain Data. In the event the MDD Change Request is to change existing market participant details which are incorrect, the Amend Market Participants sheet should be used. All MDD Attributes listed below should be included in the relevant format (see RGMA Processes and Data and Market Domain Data documents on the SPAA website).

Key
 Yellow Fields = Ma
 Blue Fields = Conc
 Grey Fields = Optic

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[If you wish to DE](#)
[If you wish to AM](#)
[If you wish to AD](#)
[If you wish to DE](#)
[If you wish to AM](#)

4.4 If You wish to add one or more meter manufacturer participants please complete the below table.

	Manufacturer Code (A0060)	Manufacturer Description (A0061)
1		
2		
3		
4		
5		

Enter the proposed code, and a description of the manufacturer in the cells of the spreadsheet.

When the form for a new manufacturer is completed, as necessary, then the form to add meter or volume converters needs to be completed.

Section 3.1.) METER MODEL DETAILS

Data Complete - thank you

The MDD Change Process can be used to add new meters to, or delete old meters from, the current version of the RGMA Market Domain Data. In the event the MDD Change Request is to change existing meter details which are incorrect, the incorrect meter details should be removed and the correct meter details should be added. All of MDD Attributes listed below should be included in the relevant format (see RGMA Processes and Data and Market Domain Data documents on the SPAA website).

Key:
 Yellow Fields = Mandatory fields must be populated
 Blue Fields = Conditional depending on answers provided. Refer to guidance notes for info
 Grey Fields = Optional Fields

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[If you wish to DELETE METER models please complete the table on the Delete Meter Models sheet.](#)
[If you wish to ADD CONVERTER models please complete the table on the Add Converter Models sheet.](#)
[If you wish to DELETE CONVERTER models please complete the table on the Delete Converter Models sheet.](#)

3.1 If You wish to Add Meter Models please complete the below table.

	Product ID (A0109)	Model Code (A0083)	Manufacturer Code (A0060)	Measuring Capacity (A0112)	Multiplication Factor (A0120)	Number of Dials or Digits (A0121)	Pulse Value (A0194)	Units of Measure (A0123)	Meter Type (A0025)	Meter Mechanism Code (A0085)	Payment Method Code (A0163)
1											
2											
3											
4											
5											
6											
7											

It is suggested that the fields are completed as follows:

- Meter Code – as recommended by Section 4 of this Specification.
- Manufacturer Code – as per the application, or with an existing valid manufacturer code
- Measuring capacity – the actual Q_{max} of the meter

- Multiplication factor – if the meter has a very large capacity, then this factor is used to record if a reading of the moving digits on the display needs to be multiplied to ensure that the actual volume of gas is correctly recorded
- Number of dials or digits – the number of dials or digits left of the decimal point and hence to be read by a human meter reader
- Pulse Value – the volume of gas passed when a pulse is supplied from the meter
- Units of measure – new meters should register in m³, and therefore m³ should be recorded
- Meter Type – L, R, S, T, U. L = legacy, R = rotary piston, S = synthetic diaphragm, T = Turbine, U = Ultrasonic meter. U is also being adopted for innovative meter types (e.g. thermal)
- Meter Mechanism Code – This is usually CR for credit, or S1 for a SMETS1 domestic meter or S2 for a SMETS2 domestic meter
- Payment Method – unless the meter is a new prepayment meter, then the code CR is used. New prepayment meters would use the code PP.

A range of meters may be added on a single form.

When all forms are complete, then the forms need to be approved and sponsored by a SPAA party, whose details are to be included on the first tab of the spreadsheet.

The SPAA party or the manufacturer then forwards the forms to Electralink for discussion at the next change board. If there is a new manufacturer form as well as a new meter form, then ensure that the covering note requests that the two forms are placed on the agenda with the manufacturer form first. The Change Board often has a phone conference facility, and, if the manufacturer wishes, it may be to their advantage to request that they join the call, in order to clear up any questions that may arise during the board discussion.

APPENDIX 5 : ALLOCATION OF MANUFACTURER'S SINGLE LETTER DESIGNATION

A5.1 The UKMF have agreed to manage the single manufacturer letter to be used in gas meter serial numbers. Contact the UKMF via their website <https://ukmf.org>.

Note: There is no requirement to use a completely unique letter, however it is advised that a letter is to be selected to avoid confusion between the meters being proposed and meters currently or recently produced by a different manufacturer.

A5.2 The following list of meter manufacturer's single letter designations were correct at the time of publication of this Specification.

SINGLE LETTER DESIGNATION	MANUFACTURER
A	ITRON, ACTARIS, SCHLUMBERGER INDUSTRIES
B	
C	
D	DRESSER
E	EDMI
F	FLONIDAN (also GE)
G	
H	
I	IGA
J	
K	KROMSCHRODER / ELSTER METERING/HONEYWELL
L	
M	MAGNOL COMPTEURS
N	INSTROMET / ELSTER METERING
O	
P	SECURE METERS (PRI) (<i>prev. RMG</i>)
Q	
R	ROMET
S	LANDIS + GYR / SIEMENS
T	
U	UGI
V	
W	GEORGE WILSON
X	
Y	
Z	SICK MAIHAK / SICK

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