

Actaris G4



Product Information

| | |
|--------------|-----------------------|
| Model | G4 |
| Manufacturer | Actaris/ Schlumberger |
| Short Code | ACT/ SCH |
| Type | Diaphragm |
| Imp/ Metric | Metric |
| Capacity | 6 m3 |
| Dials | 5 |

Description:

Actaris G4 meters are a standard domestic credit meter commonly used by National Grid Metering and have been in use since 1999 with the introduction of metrification.

Label Name/Colour:

Actaris "Handle with Care" labels are colour coded and always located on the top of the meter as shown. National Grid owned meters have red labels denoting that they are the property of National Grid Gas PLC (please note this only applies from 25.10.04, prior to that all labels were red). IDN meters have the name of the network on the label.



Serial Number Pattern:

G4A0nnnnnyy01 and G4A9nnnnnyy02 (on trial from 2006) - Always 14 digits long

Useful Information:

Actaris G4 meters do not have different serial number formats for other MAMs; the colour coded labels are the only visual means of identification. Meters approved and badged by Ofgem will still carry the U6 identifier.

Approx dimensions in mm:

H 270, W 230, D 197

Recommended space requirements in mm (to include installation kit):

H 550, W 550, D 300



Actaris G4SC



Product Information

| | |
|--------------|-----------------------|
| Model | G4SC |
| Manufacturer | Actaris/ Schlumberger |
| Short Code | ACT/ SCH |
| Type | Diaphragm |
| Imp/ Metric | Metric |
| Capacity | 6 m3 |
| Dials | 5 |

Description:

The G4SC ('SC' meaning semi-concealed) shares the same design as the G4, but has a plastic case and top viewing index, for better resistance to corrosion and easier readability when used in 'semi-concealed' applications which are half buried. See picture right.



Label Name/Colour:

Actaris "Handle with Care" labels are colour coded and always located on the top of the meter as shown. National Grid owned meters have red labels denoting that they are the property of National Grid Gas PLC (please note this only applies from 25.10.04, prior to that all labels were red). Other Meter Operators for whom Actaris produce G4 meters have their own colour coded "Handle with Care" labels. IDN meters have the name of the network on the label.



Serial Number Pattern:

G4A5nnnnnyy01- Always 14 digits long

Useful Information:

Actaris G4 meters do not have different serial number formats for other MAMs; the colour coded labels are the only visual means of identification. The exchange label will be on the inside lid of the meterbox.



Eurometers E6



Product Information

| | |
|--------------|------------|
| Model | E6 |
| Manufacturer | Eurometers |
| Short Code | EUR |
| Type | Ultrasonic |
| Imp/ Metric | Metric |
| Capacity | 6 m3 |
| Dials | 5 |

Description:

The electronic E6 meter has a Liquid Crystal Display (LCD). The meter measures gas flow using ultrasound pulses. The electronics continually check for any malfunction, interference, tampering or service requirements. 1.6 million E6 meters have been installed since 1993.

Label Name/Colour:

All Eurometers E6s are National Grid owned and the handle with care label is red and yellow.

Serial Number Pattern:

E6Eⁿnnnnnnny^vw - Always 14 digits long.

Useful Information:

These meters use a battery to support the electronic measurement of the quantity of gas used. The predicted battery life is approximately 10 years and after the battery has failed, the screen on the meter goes blank. This results in the inability to correctly record the quantity of gas used (although gas continues to flow). Dimensions of these meters are quoted below if needed when planning for a meter exchange

Approx dimensions in mm:

H 150, W 220, D 75

Recommended space requirements in mm (to include installation kit):

H 550, W 550, D 300



George Wilson E6



Product Information

| | |
|--------------|---------------|
| Model | E6 |
| Manufacturer | George Wilson |
| Short Code | GW |
| Type | Ultrasonic |
| Imp/ Metric | Metric |
| Capacity | 6 m3 |
| Dials | 5 |

Description:

The electronic E6 meter has a Liquid Crystal Display (LCD). The meter measures gas flow using ultrasound pulses. The electronics continually check for any malfunction, interference, tampering or service requirements. 1.6 million E6 meters have been installed since 1993 (although George Wilson versions were only installed by National Grid between 1997-8).

Label Name/ Colour:

All George Wilson E6s are National Grid owned and the handle with care label is red and yellow.

Serial Number Pattern:

E6Wnnnnnnyy02- Always 14 digits long

Useful Information:

These meters use a battery to support the electronic measurement of the quantity of gas used. The predicted battery life is approximately 10 years and after the battery has failed the screen on the Meter goes blank, resulting in the inability to correctly record the quantity of gas used, though gas continues to flow. National Grid Metering are planning to replace E6 meters with diaphragm Credit meters as a priority within our ongoing Policy Replacement Programme. If an engineer goes out to replace an E6 and the meter is located in an outside box, then they can carry out a battery exchange.

Approx dimensions in mm:

H 150, W 220, D 75

Recommended space requirements in mm (to include installation kit):

H 550, W 550, D 300



George Wilson G4



Product Information

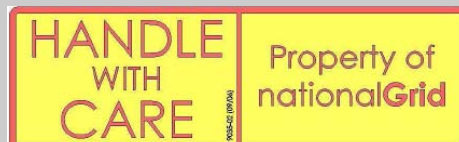
| | |
|--------------|---------------|
| Model | G4 |
| Manufacturer | George Wilson |
| Short Code | GW |
| Type | Diaphragm |
| Imp/ Metric | Metric |
| Capacity | 6 m3 |
| Dials | 5 |

Description:

George Wilson G4 meters are a standard domestic credit meter commonly used by National Grid Metering and have been in use since 1999 with the introduction of metrification.

Label Name/Colour:

The colour coded 'Handle with care' labels on National Grid owned George Wilson G4 meters are yellow and red as shown.



Serial Number Pattern:

G4Wnnnnnnyy01- Always 14 digits long

Useful Information:

National Grid owned George Wilson G4 meters are identifiable by the serial number pattern—G4Wnnnnnnyy01. Where the 13th and 14th digits are not '01', it may be an indication that the meter is non-National Grid.

Close up of the George Wilson G4 index.

Approx dimensions in mm:

H 270, W 230, D 197

Recommended space requirements in mm (to include installation kit):

H 550, W 550, D 300



George Wilson METGW (QM6)



Product Information

| | |
|--------------|---------------|
| Model | METGW (QM6) |
| Manufacturer | George Wilson |
| Short Code | GW |
| Type | Diaphragm |
| Imp/ Metric | Metric |
| Capacity | 6 m3 |
| Dials | 5 |

Description:

The George Wilson METGW, also known as the QM6, is the original version of this meter. It has since been upgraded to the QM7. It features a pre-payment module attached to a G4 based diaphragm meter.

Label Name/Colour:

Asset ownership is indicated by labels affixed to the meters. Identification of the MAM is also possible from the serial number data. This label is always on the front of the meter.

Property of
nationalgrid
Electronic Token Meter

Serial Number Pattern:

Lyy27nnnnnnM or Lyy37nnnnnnM- Always 12 digits long

Useful Information:

Where the serial number format is not indicated as above, paying particular attention to the 4th and 5th digits, it may be an indication that the meter is non-National Grid.

George Wilson METGW (QM7)



Product Information

| | |
|--------------|---------------|
| Model | METGW (QM7) |
| Manufacturer | George Wilson |
| Short Code | GW |
| Type | Diaphragm |
| Imp/ Metric | Metric |
| Capacity | 6 m3 |
| Dials | 5 |

Description:

Piloted in 2006, the new George Wilson METGW is also known as the QM7. It features a pre-payment module attached to a G4 based diaphragm meter.

Label Name/Colour:

Asset ownership is indicated by labels affixed to the meters. Identification of the MAM is also possible from the serial number data. This label is always on the front of the meter.

Property of
National Grid
Electronic Token Meter

Serial Number Pattern:

Lyy77nnnnnM- Always 12 digits long

Useful Information:

Where the serial number format is not indicated as above, paying particular attention to the 4th and 5th digits, it may be an indication that the meter is non-National Grid.

Kromschroder G4



Product Information

| | |
|--------------|--------------|
| Model | G4 |
| Manufacturer | Kromschroder |
| Short Code | KRO |
| Type | Diaphragm |
| Imp/ Metric | Metric |
| Capacity | 6 m3 |
| Dials | 5 |

Description:

Kromschroder G4 meters are a standard domestic credit meter and have been in use since 1999 with the introduction of metrification. They have not been purchased by National Grid since 2002.

Label Name/Colour:

Kromschroder "Handle with Care" labels are colour coded and always located on the top of the meter.

Serial Number Pattern:

G4K0nnnnnyy01- Always 14 digits long

Useful Information:

The MSNs of meters purchased by National Grid contain a 7 number series commencing 0000001 at the start of each year. In addition to the 'handle with care' label, identification of the MAM is possible from the serial number data. Where the serial number format is not indicated as above, paying particular attention to the 4th digit, it may be an indication that the meter is non-National Grid.

Approx dimensions in mm:

H 270, W 230, D 197

Recommended space requirements in mm (to include installation kit):

H 550, W 550, D 300

Kromschroder METKR



Product Information

| | |
|--------------|--------------|
| Model | METKR |
| Manufacturer | Kromschroder |
| Short Code | KRO |
| Type | Diaphragm |
| Imp/ Metric | Metric |
| Capacity | 6 m3 |
| Dials | 5 |

Description:

Also known as the Q-Smart, the METKR is a single integrated pre-payment system (not modular). As shown in the illustration (right), it only has one button for simpler user interface.



Label Name/ Colour:

Kromschroder "Handle with Care" labels are colour coded and always located on the top of the meter. IDN meters have the name of the network on the label.

Serial Number Pattern:

Lyy60nnnnnM- Always 12 digits long

Useful Information:

Where the serial number format is not indicated as above, paying particular attention to the 4th and 5th digits, it may be an indication that the meter is non-National Grid.

Landis & Gyr ETUG/ETGW



Product Information

| | |
|--------------|--------------|
| Model | ETUG / ETGW |
| Manufacturer | Landis & Gyr |
| Short Code | LG |
| Type | Diaphragm |
| Imp/ Metric | Imp |
| Capacity | 212 ft3 |
| Dials | 4 |

Description:

Electronic Token Meters (ETMs) are diaphragm meters incorporating battery powered electronic token mechanisms. They consist of either a U6 or E6 meter, with an added electronic interface and Liquid Crystal Display (LCD).

Landis & Gyr ETUG / ETGW meters were the standard Electronic Token Meter used by National Grid prior to metrification. They are based on a UGI (for ETUG) or George Wilson (for ETGW) U6 meter, converted to 'pre-payment' as described above.

Label Name/ Colour:

All imperial pre-payment meters are National Grid owned. Due to their age, the label may say property of Transco or British Gas.

Serial Number Pattern:



Where ETUG: **Lyy0nnnnnnnS**, **Myy0nnnnnnnS**, **Lyy2nnnnnnnS** or **Myy2nnnnnnnS** - Always 12 digits long

Where ETGW: **Lyy27nnnnnnS** - Always 12 digits long

Useful Information:

Imperial Electronic Token Meters returned as faulty, or as part of a policy exchange programme, can be converted to metric registering. This involves the refurbisher replacing the imperial type serial number (shown above) with a new metric type. The unique part of the serial number changes as the meter receives a new serial number designated sequentially in order of manufacture. It should be noted however, that this practice hasn't taken place for a number of years and is now unlikely to be reintroduced.

ETUG meters were produced between 1992 and 2000, and ETGW meters from 1999 to 2000, after which metric units were widely introduced.

Landis & Gyr ETX6 (Libra 200)



Product Information

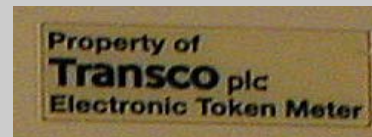
| | |
|--------------|------------------------|
| Model | ETX6 (Libra 200) |
| Manufacturer | Landis & Gyr / Siemens |
| Short Code | LG |
| Type | Ultrasonic |
| Imp/ Metric | Metric |
| Capacity | 6 m3 |
| Dials | 5 |

Description:

The ETX6 meter is made up of a valved E6 meter (X6) with an ETM module fixed to the front to make it a prepayment meter. This model is also known as the Libra 200.

Label Name/ Colour:

Third party meters are identifiable by the presence of a label indicating asset ownership.



Serial Number Pattern:

Lyy50nnnnnnM or **Lyy51nnnnnnM** or **Lyy52nnnnnnM**- Always 12 digits long

Useful Information:

All E6 based prepayment meters display two serial numbers, but it is only the 12 digit serial number of the prepayment ETM module that should be recorded.

Where the serial number format is not indicated as above, paying particular attention to the 4th and 5th digits, it may be an indication that the meter is non-National Grid.

These meters may also be referred to as 'Ironbridge' meters.

Landis & Gyr ETX6 (Libra 200a)



Product Information

| | |
|--------------|-------------------|
| Model | ETX6 (Libra 200a) |
| Manufacturer | Landis & Gyr |
| Short Code | LPG |
| Type | Ultrasonic |
| Imp/ Metric | Metric |
| Capacity | 6 m3 |
| Dials | 5 |

Description:

The ETX6 meter is made up of a valved E6 meter (X6) with an ETM module fixed to the front to make it a prepayment meter. This model was first used in 2006 and is also known as the Libra 200a.

Label Name/ Colour:

MAM ownership is identifiable by the presence of the property of label.



Serial Number Pattern:

Lyy59nnnnnM- Always 12 digits long

Useful Information:

All E6 based prepayment meters display two serial numbers, but it is only the 12 digit serial number of the prepayment ETM module that should be recorded.

Where the serial number format is not indicated as above, paying particular attention to the 4th and 5th digits, it may be an indication that the meter is non-National Grid.

Landis & Gyr METLG210



Product Information

| | |
|--------------|--------------|
| Model | METLG210 |
| Manufacturer | Landis & Gyr |
| Short Code | LPG |
| Type | Ultrasonic |
| Imp/ Metric | Metric |
| Capacity | 6 m3 |
| Dials | 5 |

Description:

The basis of the unit is similar to that of the Libra 200 and 200a (i.e. an ultrasonic meter with a prepayment device). The difference is that the Libra 210 meter comprises the meter and prepayment module into a single unit, whereas previous electronic token meters have always been comprised of a meter with the prepayment module attached.

Label Name/ Colour:

Third party meters are identifiable via the 'property of' label.



Serial Number Pattern:

Lyy599nnnnnM- Always 12 digits long

Useful Information:

Also known as the Libra 210. Purchased from 2007 onwards.

This meter also displays two serial numbers, but it is only the 12 digit serial number that should be recorded.

Where the serial number format is not indicated as above, paying particular attention to the 4th and 5th digits, it may be an indication that the meter is non-National Grid.

Magnol Compteurs G4



Product Information

| | |
|--------------|------------------|
| Model | G4 |
| Manufacturer | Magnol Compteurs |
| Short Code | MAG |
| Type | Diaphragm |
| Imp/ Metric | Metric |
| Capacity | 6 m3 |
| Dials | 5 |

Description:

Magnol Compteurs G4 meters are a standard domestic credit meter commonly used by National Grid Metering and have been in use since 1999 with the introduction of metrification. National Grid Metering have not purchased these meters since 2001.

Label Name/ Colour:

No information is known about the labelling of these units.

Serial Number Pattern:

G4Mnnnnnnyy01- Always 14 digits long

Useful Information:

Originally supplied to National Grid by Advanced Energy Products who ceased trading in 2001. Magnol's parent company is Elster GmbH. These meters are included in the ongoing policy replacement programme. The majority of these meters were fitted in the former East Midlands and South LDZs. The meters are cream in colour.

Schlumberger E6



Product Information

| | |
|--------------|--------------|
| Model | E6 |
| Manufacturer | Schlumberger |
| Short Code | SCH |
| Type | Ultrasonic |
| Imp/ Metric | Metric |
| Capacity | 6 m3 |
| Dials | 5 |

Description:

The electronic E6 meter has a Liquid Crystal Display (LCD). The meter measures gas flow using ultrasound pulses. The electronics continually check for any malfunction, interference, tampering or service requirements. 1.6 million E6 meters have been installed since 1993 (although Schlumberger versions are rare).

Label Name/ Colour:

All Schlumberger E6s are National Grid owned and the handle with care label is red and yellow. These units are much rarer than the Eurometers and Siemens versions.

Serial Number Pattern:

E6Annnnnnyyvv- Always 14 digits long

No further information is known about the MSN format.

Useful Information:

These meters use a battery to support the electronic measurement of the quantity of gas used. The predicted battery life is approximately 10 years and after the battery has failed the screen on the Meter goes blank, resulting in the inability to correctly record the quantity of gas used, though gas continues to flow. National Grid Metering are planning to replace E6 meters with diaphragm Credit meters as a priority within our ongoing Policy Replacement Programme. If an engineer goes out to replace an E6 and the meter is located in an outside box, then they can carry out a battery exchange.

Approx dimensions in mm:

H 150, W 220, D 75

Recommended space requirements in mm (to include installation kit):

H 550, W 550, D 300

Siemens E6



Product Information

| | |
|--------------|------------|
| Model | E6 |
| Manufacturer | Siemens |
| Short Code | SIE |
| Type | Ultrasonic |
| Imp/ Metric | Metric |
| Capacity | 6 m3 |
| Dials | 5 |

Description:

The electronic E6 meter has a Liquid Crystal Display (LCD). The meter measures gas flow using ultrasound pulses. The electronics continually check for any malfunction, interference, tampering or service requirements. 1.6 million E6 meters have been installed since 1993.

Label Name/ Colour:

All Siemens E6s are National Grid owned and the handle with care label is red and yellow.

Serial Number Pattern:

E6Snnnnnnnyyvv- Always 14 digits long

Useful Information:

These meters use a battery to support the electronic measurement of the quantity of gas used. The predicted battery life is approximately 10 years and after the battery has failed the screen on the Meter goes blank, resulting in the inability to correctly record the quantity of gas used, though gas continues to flow. National Grid Metering are planning to replace E6 meters with diaphragm Credit meters as a priority within our ongoing Policy Replacement Programme. If an engineer goes out to replace a Siemens E6 and the meter is located in an outside box, then they can carry out a battery exchange.



Approx dimensions in mm (of mk2 model–1997-2001, earlier versions may be larger):

H 165, W 236, D 95

Recommended space requirements in mm (to include installation kit):

H 550, W 550, D 300

Siemens / George Wilson METUG



Product Information

| | |
|--------------|-------------------------|
| Model | METUG |
| Manufacturer | Siemens / George Wilson |
| Short Code | SIE |
| Type | Diaphragm |
| Imp/ Metric | Metric |
| Capacity | 6 m3 |
| Dials | 5 |

Description:

A METUG is an electronic token meter, based on a refurbished UGI U6, that has been converted to a metric registering pre-payment meter. Modified by Siemens or George Wilson, these meters were only fitted up to 2001.

Label Name/ Colour:

Third party meters are identifiable by the presence of a label indicating asset ownership.

Serial Number Pattern:

Where Siemens: **Lyy21nnnnnnM**, **Lyy22nnnnnnM**, **Lyy31nnnnnnM** or **Lyy32nnnnnnM** - Always 12 digits long

Where George Wilson: **Lyy27nnnnnnM** - Always 12 digits long

Useful Information:

The close up (right) shows the index. Here, the original manufacture year, in this case 1997, and the year the unit was converted, 2004, can be seen printed. Note it is the original manufacture year that is recorded as the second and third digits of the serial number (shown here on the yellow sticker). See also how the original U6 serial number (above the barcode on the white part) is part of the new 12 digit number.



Tin Case Meters



Product Information

| | |
|--------------|-----------|
| Model | Tin Case |
| Manufacturer | Various |
| Short Code | Various |
| Type | Diaphragm |
| Imp/ Metric | Imp |
| Capacity | Various |
| Dials | 4 / 5 / 6 |

Description:

Tin Case meters are extremely old leather diaphragm meters that were the standard domestic meter prior to the introduction of the U series.

Label Name/ Colour:

Tin Case meters do not have the usual property of sticker on them. See picture for an example of a Tin Case manufacturer logo.



Serial Number Pattern:

nnnnnn

(Although formats may vary)



Useful Information:

National Grid engineers are instructed that these meters should be exchanged where found.



U6 Meters



Product Information

| | |
|---------------------|---------------------|
| Model | U6 / U6 R5 |
| Manufacturer | Various |
| Short Code | Various |
| Type | Diaphragm |
| Imp/ Metric | Imp |
| Capacity | 212 ft ³ |
| Dials | 4 |

Description:

U6 meters are the standard imperial domestic meter fitted by National Grid Metering prior to metrification. They were manufactured by several companies including Schlumberger, UGI, Parkinson Cowan and George Wilson. U series meters were manufactured with leather diaphragms up to 1979 and with synthetic diaphragms from 1982. In the period between either diaphragm could have been fitted.

Label Name/ Colour:

All imperial U6 meters are National Grid owned. Due to their age the label will say property of Transco or British Gas.



Serial Number Pattern:

nnnnnnnS or nnnnnnn

(Although formats may vary-'S' present where synthetic diaphragm)

Useful Information:

The R5 pulse indexes were introduced between January and October 1991. All U6 meters after 1993 should be recorded as U6 R5. On synthetic diaphragm meters the letter 'S' will be recorded in the serial number. Most U6 meters are a sandy beige colour (whereas the similar looking G4 metric equivalent is white), although some early examples are grey-blue.

The close up (below) shows the index of a Schlumberger U6 R5. The MSN is the number at the bottom of the glass.



Shown right is an 'SC6' ('SC' meaning semi-concealed). This meter shares the same design as the U6, but has a plastic case and top viewing index, for better resistance to corrosion and easier readability when used in 'semi-concealed' applications.



Coin Meters



Product Information

| | |
|--------------|-----------------|
| Model | Coin Meter (U6) |
| Manufacturer | Various |
| Short Code | Various |
| Type | Diaphragm |
| Imp/ Metric | Imperial |
| Capacity | 212 ft3 |
| Dials | 4 |

Description:

Before the introduction of Electronic Token Meters (ETMs), such as the Landis & Gyr ETUG, pre-payment installations were served by the Mechanical Token Meter (MTM), or coin/slot meter. These units were produced by various manufacturers, although more commonly by Parkinson Cowan and then Schlumberger. As shown right, a U6 meter is the standard model with a modular coin collection mechanism affixed to the front. Finding these meters in situ is now rare.



Label Name/Colour:

These meters have a standard 'Handle with Care' label and are owned by National Grid.

Serial Number Pattern:

nnnnnnnS or nnnnnnn

(Although, formats may vary. 'S' present where synthetic diaphragm)

Useful Information:

There were instances of coin meters being modified and converted for credit use (see example right). Here, the coin/slot mechanism has been removed and replaced with a blank disc. The example pictured was discovered in full use in 2007.

This practice is no longer employed and National Grid engineers are instructed to exchange these meters where found.



Guide to National Grid MSN Formats

MSN formats specified in the table below relate to National Grid Meters. Meters with MSNs that do not conform may be non-National Grid.

| MSN Type | Model | Manufacturer |
|----------------|----------|------------------|
| G4A9nnnnnnyy01 | G4 | Actaris |
| G4K0nnnnnnyy01 | G4 | Kromschroder |
| G4Wnnnnnnyy01 | G4 | George Wilson |
| G4M6nnnnnnyy01 | G4 | Magnol Compteurs |
| Lyy21nnnnnnM | METUG | Siemens |
| Lyy22nnnnnnM | METUG | Siemens |
| Lyy27nnnnnnM | METUG | George Wilson |
| Lyy31nnnnnnM | METUG | Siemens |
| Lyy32nnnnnnM | METUG | Siemens |
| Lyy37nnnnnnM | METGW | George Wilson |
| Lyy50nnnnnnM | ETX6 | Landis & Gyr |
| Lyy51nnnnnnM | ETX6 | Landis & Gyr |
| Lyy59nnnnnnM | METLG210 | Landis & Gyr |
| Lyy77nnnnnnM | METGW | George Wilson |

The serial number formats listed below are not specific to National Grid and care should be taken when attempting to establish the MAM.

| MSN Type | Model | Manufacturer |
|----------------|-------|--------------|
| G4A0nnnnnnyy01 | G4 | Actaris |
| G4A5nnnnnnyy01 | G4SC | Actaris |
| Lyy52nnnnnnM* | ETX6 | Landis & Gyr |
| Lyy60nnnnnnM | METKR | Kromschroder |

*National Grid where 'yy' = 02

Please note, the 'Property of' labels affixed to meters are the primary method of establishing MAM ownership.

