

## GAS TRANSMITTER INSTALLATION GUIDE

### What's in the box?

- 1 Gas transmitter
- 2 Gas pulse sensors (2 different types)
- 3 Velcro pad
- 4 Cable tie
- 5 Guarantee card
- 6 This user guide



**Gas transmitter**  
+ connecting wire & plug



**Gas pulse sensor- type A**  
(Shown already attached to an Actaris meter)



**Gas pulse sensor- type B**  
(Shown before attaching to a gas meter)

### Connecting your new gas transmitter

After you have your electricity transmitter up and running and your Saveometer is measuring and showing your electricity use, you can link a gas transmitter. The gas transmitter will then automatically be linked with your Saveometer displays providing they are all within range of the transmitter. Your new gas transmitter has a special lithium battery which will normally last between 12 - 14 years.

- 1 Take the gas transmitter so that you and it are close to your (already connected) electricity transmitter. Remove the tag as shown on the label on the rear side.
- 2 Press the central transmit button on gas transmitter for a few seconds until the blue LED starts to flash slowly & then release. The blue LED will continue to flash then immediately....
- 3 Press the green transmit button on your electricity transmitter until the red LED starts to flash slowly.
- 4 The gas transmitter blue LED will soon stop flashing, and when it extinguishes the link has been completed. The red LED on the electricity transmitter will also extinguish about 5 to 10 seconds later.

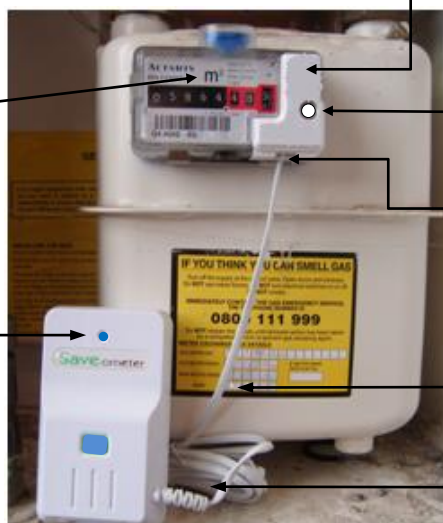
### All that has to be done now is to connect the gas transmitter & sensor to your gas meter

**This is a typical installation**  
(installations may vary so please read below)

The "m3" indicates metering in cubic meters of gas. There are 5 black numbers/digits indicating how many cubic meters have been used. The red digits are one hundredths of a Cu Mtr

#### Saveometer gas transmitter

This shows the blue LED and the transmit button used when linking with your electricity transmitter for the first (and only) time. When you have decided the precise gas transmitter location it may be attached using the velcro pad provided



Type A meter pulse sensor already fitted to the meter provided.

Type A - sensor attachment peg. Use a blunt point to fully press home the peg to firmly secure the sensor to your meter. The sensor must fit to the gas meter without any wobble or movement

RJ plug (same shape as on a telephone) from the gas transmitter is inserted in to the sensor socket – either of the 2 sockets provided may be used

Connecting wire between gas sensor & the gas transmitter. (**The Elster meters** use a different sensor & the transmitter plug is connected via a socket from the sensor. See 5c below)

Unused wire can be neatly coiled after transmitter position is decided

**5a Schlumberger or Actaris G4 or U6 gas meters** are similar to the illustration above. A gas sensor and plastic attachment peg is included with your new Saveometer gas transmitter. This is used when the transmitter is to be attached to a Schlumberger or Actaris G4 or U6 gas meter. The meter pulse sensor can be easily installed by attaching it at the gas meter by firmly pressing the peg into the hole provided on the meter using a blunt instrument. Once the gas sensor is attached, insert the RJ plug from the transmitter into either of the sensor sockets as shown in the preceding photo.

**5b Schlumberger & Actaris & UGI Limited R5 or Wilson G4 meters**

When your new gas transmitter is attached to any of these meters the separate meter pulse sensors provided are not required. You simply plug in the RJ connector from the transmitter directly into the meter as shown alongside. We recommend that you keep the spare gas pulse sensors in a safe place just in case you move premises and need one in the future. The illustration shows a Schlumberger meter – other makes do vary slightly



Connect transmitter here →

**5c Elster BK series gas meters – use Type B sensors**

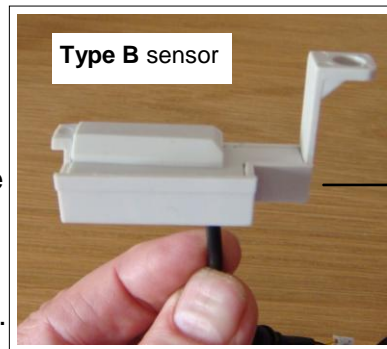
The Elster BK series of meters can be recognised by the letters BK found on the meter face. BK is usually followed by G 4 and occasionally by G1.6, or G 2.5. This type of meter requires its own special **type B sensor** and one is supplied with each transmitter. The Elster meters come in several colours – mainly light brown or grey. Fitting a sensor to the meter takes seconds.



Use plastic nut & bolt to attach sensor

Elster "BK" series meter

Offer the sensor up to the right hand underside of the meter face and fix by placing the plastic nut & bolt through the holes provided. Once fixed, the RJ plug from the transmitter (it looks like a telephone plug) should be plugged into the socket leading from the sensor.



**6** Once the sensor is attached, position the gas transmitter at a convenient permanent location. In most houses and small businesses the transmitter will perform well when mounted in or in close proximity to the meter cupboard. But to achieve the optimum range between the gas transmitter and your display(s), such as in larger or tall houses or businesses, you may wish to locate the gas transmitter away from the meter itself, in an area where there are least brick, concrete, stone or steel walls through which the transmitter signals must penetrate. The gas transmitter is supplied with a 2.5 meter cable for this purpose.

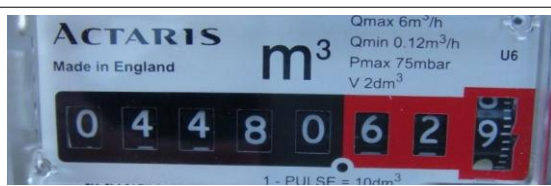
**7** When the transmitter location is finalised it may be mounted using the Velcro pad, and any excess wire may be neatly gathered using the cable tie provided.

**8** It is important now to select if your gas meter measures gas in cubic feet or cubic meters and also if your gas meter has 4, 5 or 6 meaningful digits or numbers. To do this select mode 18 on your Saveometer display. Meaningful digits or numbers are those that are not either in red or surrounded by red. You may find the illustrations on the following page useful when making your selection. Please inspect your meter, then using your Saveometer display select mode 18. Now use the < or > keys to select either cubic meters or cu feet, and also whether your meter has 4, 5 or 6 meaningful numbers - always ignore the red numbers on the right. (If your meter has only 4 meaningful digits or numbers this is most unusual; in this case when using mode 18 please select 5 digits).

## Here are some examples:

In this example the gas meter has 5 meaningful digits /numbers and measures gas in Cubic Meters indicated by M3

*Meaningful digits or numbers are those that are not either in red or surrounded by red*



In this example the Itron gas meter has 6 meaningful numbers and measures gas in Cubic Meters indicated by M3

*Meaningful digits or numbers are those that are not either in red or surrounded by red*



For this example the Schlumberger gas meter has only 4 meaningful numbers which measure gas in 100's of cubic feet – often called "Imperial Units" on a gas bill (These are very old meters - in mode 18 select 5 digits please – we phased out the 4 digit option)

*Meaningful digits or numbers are those that are not either in red or surrounded by red.*



**9** Once installed select mode 21, 'Gas Test' and press S to select. You will see 'Gas RX'. Now press the blue transmit button on the gas transmitter for 1 – 2 seconds and if the transmitter is working correctly you will see some numbers above 'Gas RX'. Press the top button and the display reverts to your hourly cost of electricity. If your boiler is currently using gas (to heat water or for central heating) your gas readings will start in 1 hour – the gas transmitter sends data once an hour to the display.

**10** Please now read mode 20 in the Saveometer User Guide. Your Saveometer records whole cubic feet or cubic meters. If you wish your Saveometer to read the same as your actual gas meter this is simple to achieve. Select mode 20 and use the < and > keys to change the displayed numbers so that they match the current reading of your gas meter. Remember to set only the 'meaningful, digits - that is usually the first 5 or 6 numbers from the left which are normally (but not always) coloured black on white or white on black. These first 5 - 6 numbers are whole cubic feet, 100's of cubic feet, or whole cubic meters, and the others numbers on the right (these are usually moving when gas is being used) are tenths or hundredths of a cubic foot or meter and are not significant. (A few gas meters only have 4 meaningful digits – in such cases precede your meter reading in mode 20 with a zero; for example if the meter reading is 4567.89 then set mode 20 to 04567)

**11** Please make sure that you have selected the correct setting in mode 18 – if you require more guidance please see mode 18 in the Saveometer User Manual.

**12** If you have a gas meter that measures in "Imperial Units" or 100's of cubic feet, such as the Schlumberger R5 above, please set mode 19 to a value of **32.0**

## OUR GUARANTEE

In addition to the comprehensive 18 month warranty as set out below, and your statutory rights, Eco<sub>1</sub> Limited guarantee that you will save at least the Eco<sub>1</sub> recommended selling price of your Saveometer transmitter (any model or part) within 6 months of installation and permanent connection in the UK during winter months, or you may return it to us (in appropriate protective packaging, fully insured & prepaid postage please). If you return any unit in good condition, together with your original dated receipt or evidence of purchase and the relevant utility bills for the year in question, Eco<sub>1</sub> will refund your purchase price in full providing your Saveometer has remained permanently connected. You can register on line using [www.saveometer.com/register](http://www.saveometer.com/register) or by completing and posting the enclosed guarantee card. To enjoy the Eco<sub>1</sub> Limited unique guarantee your Saveometer must be registered within 14 days of purchase.

## 18 MONTH WARRANTY

The Saveometer gas transmitter is guaranteed against manufacturing defects for a period of 18 months. This guarantee does not cover faults caused by misuse of any sort including contravention of the user guide, or when any part of the product has been dropped or modified in any way. Please take care of your Saveometer gas transmitter. The full term and conditions of your warranty are set out in the main user guide that accompanied your new Saveometer display.

## Technical Specification

Operational Temperature:	5 deg C – 45 deg C (41 deg F – 113 deg F) at 85% relative humidity
Dimensions:	Transmitter 70 mm W x 115H x 35 D, weight 110g ,
Servicing:	<b>Do not attempt to service any part yourself. The transmitter is a sealed unit. Opening or removing covers may expose you to risks and voids all warranties. Refer all servicing only to qualified engineers at Eco<sub>1</sub> Limited.</b>
Batteries:	The supplied lithium battery will last between 10 to 12 years in normal use. For replacement contact Eco <sub>1</sub> Limited or at <a href="http://www.saveometer.com">www.saveometer.com</a> . Do not attempt to replace the battery yourself.
Dimensions:	Transmitter 70 mm W x 115H x 35 D, weight 150g ,
Cleaning:	Only clean the transmitter using a dry cloth. Do not use aerosol or liquid cleaners.



Conforms to the adjacent technical & safety standards – see also Saveometer display compliance

Safety: EN60 950-01 2002 & EN 503712002  
ETSI EN 300 220-2 V2.1.2 (2007-06)  
ETSI EN 300 330-2 V1.3.1 (2006-04)  
ETSI EN 301-489-3 V1.4.1  
R & TTE Directive (1999/5/EC)



The gas transmitter is a sealed unit. No serviceable parts within. Opening the transmitter voids your warranty.



R22 151210

No part or parts of the Saveometer should be disposed in household waste. This equipment should be taken to your local recycling centre for safe treatment. Details of your local recycling centre can be found at [www.recycle-more.co.uk](http://www.recycle-more.co.uk) or by telephoning your local council.

## UK roll out of Gas & Electricity Supplier installed Smart Meters (SSM's)

A gradual roll out of supplier's smart meters may soon commence throughout the UK. New meters will be provided by your gas and electricity supplier, and the Government hopes that they will be installed in all homes by the end of 2020, or perhaps a little later. Technical standards for these new smart meters are being formulated and when roll out commences the new meters will enable all gas and electricity companies to accurately monitor both your gas and electricity consumption in real time, as well as introducing very sophisticated new charging rates and discounts. When the new open standard has been agreed and published by Ofgem it is the intention of Eco<sub>1</sub> Limited that the Saveometer will be adapted to interface and function with every newly installed smart meter. All Saveometer users who have registered their warranty will be offered either an upgrade at a substantial discounted price, or alternatively offered a trade-in value when investing in the latest Saveometer.

gas transmitter installation guide R26 130211

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**Saveometer**<sup>TM</sup>  
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