

# Non-household metering policy

This document provides guidance on the wholesale metering policy within Wessex Water. It also provides further guidance for the data and information requirement for raising and progressing metering-related work requests.

## Meter product selection criteria and menu

Wessex Water will only provide cold water meters and/or metering products that comply with all legislation and operational code requirements.

Wessex Water's wholesale meter menu is available is included in this document in Appendix A.

The meter remains the asset of Wessex Water and only Wessex Water, or an agreed accredited entity, can undertake any work on it. It is an offence under Section 175 and 176 of the Water Industry Act 1991 to modify a meter without permission from the asset owner. Wessex Water reserves the right, as necessary, to access, maintain or replace a meter.

## Meter sizing and responsibilities

Wessex Water is not responsible for sizing a meter to the requirements of the premises that is to be supplied. If Wessex Water agrees to the installation of a new meter at the retailer's request and the new meter has an adverse effect on the supply to the premises, Wessex Water will not be held responsible for excessive pressure loss, flow restriction, inaccurate recording or consumption or any compromise in existing fire protection or firefighting systems.

The retailer will ensure that meter size requested is adequate to meet the water demand requirements of the customer and also that the meter will record accurately. Wessex Water reserves the right to decline a meter application if the meter size proposed is deemed inappropriate for the premise owner/occupier demand, or if it poses a risk to the supply network.

Where necessary, the retailer should access the meter manufacturer's specifications for the meters available from the wholesale meter menu.

Wessex Water guarantees that meter installations will be hydraulically efficient and maintain water quality.

Retailer requests for changes in meter size or new meter installations must be supported with indicative flow rates based on the demand of the premise owner/occupier. Provision of supporting logger data from the retailer is likely to reduce the likelihood of delays in processing a metering application. The supporting data must take into account all of the premise owner's/occupier's flow and demand requirements especially those for fire protection and firefighting purposes. Notional meter size changes will not be carried out. Meter size changes may also attract an additional cost for infrastructure loading.

## **Meter accuracy testing**

Any requests for meter accuracy testing will be carried out by an accredited testing house. Test results, once received, will be provided to the retailer. Charges for accuracy tests will only be payable in the event of the meter passing the test. Meters removed for accuracy testing will not be reinstalled, but will be replaced on a like-for-like basis at the time they are removed for the testing.

Once tested, meters shall be retained at the accredited testing house for a period of 12 months, after which they will be disposed of.

## **Meter locations**

It is Wessex Water policy, where possible, to install meters at the boundary of the highway in which the connecting water main is laid. The actual location of a meter will be determined at the survey stage.

Wessex Water must have access to the meter at all reasonable times. Prevention of access may result in Wessex Water proceeding with legal action.

Where it is deemed necessary by Wessex Water to fit a meter within a building, it may be necessary to install additional equipment for the purposes of reading the meter remotely.

## **Metering exclusions**

- Wessex Water will only install meters for cold water supply purposes.
- Wessex Water will not install more than one meter to capture the consumption of a single premise.
- Wessex Water will not install a meter that creates a sub-metering arrangement.

**PLEASE NOTE:** A sub-metering arrangement is the deduction of consumption from one meter from another to derive a charge.

## **Automatic meter reading (AMR)**

AMR metering is available and suitable meters are available from the menu (please see Appendix A).

Retailers and premise owner/occupiers should be aware that it may be necessary to install additional equipment to boost the signal strength, allowing meter readers to record consumptions outside the boundary of the premises.

## **Third party logging**

Wessex Water will only provide new water meters that provide pulsed outputs for data logging purposes. To facilitate the installation of third party data loggers, a splitter box is available which will provide the premise owner/occupier and retailer with the required pulsed output. In doing so, Wessex Water retains the ability to independently log its asset. Furthermore, the installation of the splitter box will not prevent the meter from being directly read by the meter reader.

Also, all volumetric and turbine meters have pulse output capabilities. Where deemed necessary, a splitter box will be installed by Wessex Water, or an agreed accredited entity, on receipt of a request and payment of a prescribed charge.

Any existing meter which does not have the capability to be logged but has a requirement to do so by the retailer will require an application to replace the meter.

All requests from third party for logger installations must be made via the retailer with the consent of the premise owner/occupier.

Any requests to log a meter by a third party must be requested via the retailer to Wessex Water for approval.

The cost of making a meter capable of having a logger fitted is detailed in the Wessex Water wholesale charges scheme.

## Appendix A – Wholesale meter menu

STANDARD METER (15 mm and 20mm)			
Manufacturer	Model	Meter material	Comments
Elster (LUQTM4156)	15mm Manifold V210P	Polymer	This meter IS WRAS approved for contaminated land.
			Meter Thread Size - G ½" with 1½" BSP parallel body threads
			MID Compliant - Yes. Q <sub>3</sub> = 2.5 m <sup>3</sup> /h
			Inductive Register : pulse output of 1 pulse per litre
Elster (LUSTM4200)	15mm Inline V200P	Polymer	This meter is NOT WRAS approved for contaminated land.
	( Length = 134mm)		Meter Thread Size - G ½" with 1½" BSP parallel body threads
			MID Compliant - Yes. Q <sub>3</sub> = 2.5 m <sup>3</sup> /h
			Inductive Register : pulse output of 1 pulse per litre
Elster (LUQTM4520)	20mm Manifold V210	Brass	This meter IS WRAS approved for contaminated land.
			Meter Thread Size - G ¾" with 1½" BSP parallel body threads
			MID Compliant - Yes. Q <sub>3</sub> = 4 m <sup>3</sup> /h
			Inductive Register : pulse output of 1 pulse per litre
Elster (LUQTM5300)	20mm Inline V200	Brass	Is this meter WRAS approved for contaminated land? N/A
	( Length = 165mm)		Meter Thread Size - G ¾" with 1½" BSP parallel body threads
			MID Compliant - Yes. Q <sub>3</sub> = 4 m <sup>3</sup> /h
			Inductive Register : pulse output of 1 pulse per litre
NON-STANDARD METER (15mm 20mm)			
Manufacturer	Model	Meter material	Comments
Elster (LUQTM4156)	15mm Manifold V210P	Polymer	This does include a retro-fit inductive PR6 pulse unit.
			Inductive Register : pulse output of 1 pulse per litre
			Ability to detect bi-directional flow
			Meter Thread Size - G ½" with 1½" BSP parallel body threads
Elster (LUSTM4200)	15mm Inline V200P	Polymer	This does include a retro-fit inductive PR6 pulse unit
	( Length = 134mm)		Inductive Register : pulse output of 1 pulse per litre

			Ability to detect bi-directional flow		
			Meter Thread Size - G ½" with 1½" BSP parallel body threads		
Elster (LUQTM4156)	<b>15mm Manifold V210/TPR11</b>	Polymer	This does include a retro-fit Emeris TPR11 AMR transmitter with		
			integrated Wavenis radio model.		
			Inductive Register : pulse output of 1 pulse per litre		
			Ability to detect bi-directional flow		
			Meter Thread Size - G ½" with 1½" BSP parallel body threads		
Elster (LUSTM4200)	<b>15mm Inline V200/TPR11</b>	Polymer	This does include a retro-fit TPR11 AMR transmitter with		
	( Length = 165mm)		integrated Wavenis radio model.		
			Inductive Register : pulse output of 1 pulse per litre		
			Ability to detect bi-directional flow		
			Meter Thread Size - G ½" with 1½" BSP parallel body threads		
Elster	<b>15mm Manifold V210H</b>	Polymer	AMR 2 Hybrid radio meter.		
			Pulse Output - 1 pulse/litre.		
			This meter IS WRAS approved for contaminated land.		
			Meter Thread Size - G ½" with 1½" BSP parallel body threads		
Elster	<b>20mm Inline V200H</b>	Polymer	AMR 2 Hybrid radio meter.		
	( Length = 165mm)		Pulse Output - 1 pulse/litre.		
			Is this meter WRAS approved for contaminated land? N/A		
			Meter Thread Size - G ¾" with 1½" BSP parallel body threads		
Elster (LUQTM5300)	<b>20mm Inline V200</b>	Brass	This does include a retro-fit inductive PR6 pulse unit		
	( Length = 165mm)		Inductive Register : pulse output of 1 pulse per litre		
			Ability to detect bi-directional flow		
			Meter Thread Size - G ¾" with 1½" BSP parallel body threads		
<b>STANDARD METER (25 mm - 40mm)</b>					

Manufacturer	Model	Meter material	Comments
Elster (LUSTD5864)	<b>25mm Inline V200</b>	Brass	Is WRAS approved for contaminated land? N/A
	( Length = 199mm)		Meter Thread Size - G 1¼" BSP parallel body thread terminates in a 1" BSP-T thread
			MID Compliant - Yes. <b>Q<sub>3</sub> = 6.3 m<sup>3</sup>/h</b>
			Inductive Register : pulse output of 1 pulse per litre
Elster (LUSTF5213)	<b>30mm inline V200</b>	Brass	Is WRAS approved for contaminated land? N/A
	( Length = 260mm)		Meter Thread Size - G 1½" BSP parallel body thread terminates in a 1¼" BSP-T thread
			MID Compliant - Yes. <b>Q<sub>3</sub> = 10 m<sup>3</sup>/h</b>
			Inductive Register : pulse output of 1 pulse per litre
Elster (LUSTM5811)	<b>40mm inline V200</b>	Brass	Is WRAS approved for contaminated land? N/A
	( Length = 300mm)		Meter Thread Size - G 2" BSP parallel body thread terminates in a 1½" BSP-T thread
			MID Compliant - Yes. <b>Q<sub>3</sub> = 16 m<sup>3</sup>/h</b>
			Inductive Register : pulse output of 1 pulse per litre
<b>NON-STANDARD METER (25 mm - 40mm)</b>			
Manufacturer	Model	Meter material	Comments
Elster	<b>Inline V200</b>	Brass	This does include a retro-fit inductive PR7 pulse unit.
	(25mm, 30mm and 40mm)		Inductive Register : pulse output of 1 pulse per litre or 1 pulse per 10 litres.
			Note: In some instances a splitter box may deemed appropriate.
<b>STANDARD METER (50 mm - 150mm)</b>			
Manufacturer	Model	Meter material	Comments
Sensys	<b>50mm MEISTREAM PN16</b>	Cast Iron	Includes a HRI-Mei pulse output device plus Splitter Box.
			Pulse output = 10 litres per pulse.
			MID Compliant: <b>35 m<sup>3</sup>/h</b>

			PN 16 Standard length = 200mm. PN16 Long Lenght = 300mm.
Sensys	<b>80mm MEISTREAM PN16</b>	Cast Iron	Includes a HRI-Mei pulse output device plus Splitter Box.
			Pulse output = 10 litres per pulse.
			MID Compliant: <b>63 m<sup>3</sup>/h</b>
			PN 16 Standard length = 200mm. PN16 Long Lenght = 350mm.
Sensys	<b>100mm MEISTREAM PN16</b>	Cast Iron	Includes a HRI-Mei pulse output device plus Splitter Box.
			Pulse output = 10 litres per pulse.
			MID Compliant: <b>100 m<sup>3</sup>/h</b>
			PN 16 Standard length = 250mm. PN16 Long Lenght = 350mm.
Sensys	<b>150mm MEISTREAM PN16</b>	Cast Iron	Includes a HRI-Mei pulse output device plus Splitter Box.
			Pulse output = 10 litres per pulse.
			MID Compliant: <b>250 m<sup>3</sup>/h</b>
			PN 16 Standard length = 300mm.
<b>STANDARD COMBINATION METER (50 mm and 80mm)</b>			
<b>Manufacturer</b>	<b>Model</b>	<b>Meter material</b>	<b>Comments</b>
Elster	<b>50/20mm C4000</b>	Cast Iron	Includes pulse output devices plus Splitter Box.
			Pulse output = 1 and 10 litres per pulse.
			MID Compliant: Q <sub>max</sub> Combined <b>50 m<sup>3</sup>/h</b>
			PN 16 Standard length = 300mm.
Sensys	<b>80/20mm MeiTwin</b>	Cast Iron	Includes pulse output devices plus Splitter Box.
			Pulse output = 1 and 10 litres per pulse.
			MID Compliant: Q <sub>3</sub> = <b>63 m<sup>3</sup>/h</b>
			PN 16 Standard length = 300mm.
<b>STANDARD - WaterMaster ( Full Bore) 200mm to 1400mm</b>			
<b>Manufacturer</b>	<b>Model</b>	<b>Meter material</b>	<b>Comments</b>
ABB	Mains-powered electromagnetic	Stainless Steel	PN16 for OML, MID Approved. Q <sub>3</sub> Range from <b>1000 m<sup>3</sup>/h to 63000 m<sup>3</sup>/h</b>
			Flanged to BS4504 PN16, with WRAS approved lining, s/s 316 electrodes
			Integral earth electrode fitted

			Accuracy $\pm 0.2\%$		
			10 m standard cable fitted & potted into sensor terminal box		
			4 to 20mA and pulse outputs		
			Any pipe orientation and bi-directional flow		



Appendix B – Third party logging agreement

AGREEMENT FOR THE INSTALLATION OF LOGGERS(S) ON WESSEX WATER METERS AT .....

I refer to the above matter and to discussions we have had as to the installation of data loggers by.....("the Installer") on Wessex Water meters. I confirm that in consideration of the Installer accepting and adhering to the following terms Wessex Water consents generally to such installation.

1. The Installer shall, prior to installing any loggers on Wessex Water meters, submit a request via their retailer to Wessex Water's Wholesale Service Desk for approval. (Email to [wholesaleservicedesk@wessexwater.co.uk](mailto:wholesaleservicedesk@wessexwater.co.uk))
2. Wessex Water may request a method statement which must be submitted for approval by the Installer at least ten working days before the work on site is due to be undertaken.
3. All installation work shall be carried out in accordance with the requirements of Wessex Water and/or the detailed method statement approved by Wessex Water. For the avoidance of doubt, the Installer may not carry any logger installation until such approval is given.
4. The Installer must provide details of any sub-contractor it will use to install the loggers together with the full names of the individuals (whether employed by the installer or any sub-contractor) who are to carry out the installation works and warrants that such sub-contractor and individuals are suitably qualified and experienced in the fitting of loggers to water meters.
5. The installer is not permitted to break any seals on Wessex Water meters or to undertake any works that may invalidate the warranty of the meters.
6. Where the Installer wishes to install loggers on a meter and that can only be achieved by breaking a seal on the meter, the Installer must not proceed with the installation but should immediately notify Wessex Water. Wessex Water will provide a quotation for the cost of fitting a replacement meter on which the Installer will be able to install a logger. If the Installer wishes the replacement meter to be fitted it shall notify Wessex Water of this fact. Any meter replacement required to enable the Installer to undertake its activities must be undertaken by Wessex Water or an Accredited Entity. The reasonable costs of fitting the replacement meter shall be borne by the Installer.
7. Where the Installer, on arriving on site, discovers a damaged meter it must not proceed with the logger installation and must report the damage to Wessex Water's Wholesale Service Desk.
8. The Installer must take a before and after photograph of the meter installation which must be submitted to Wessex Water following completion of the fitting of the logger and any other ancillary equipment. In addition, the Installer shall ensure the equipment is clearly labelled with the retailer details and dated.
9. Wessex Water may carry out inspection visits on a percentage of the logger installations undertaken by the Installer. The costs of the inspection visits shall be borne by Wessex Water. However, the Installer shall pay the full costs of any remedial works required where

the installation has not been carried out to the satisfaction of Wessex Water or the approved method statement.

10. The Installer shall meet the full costs of any enabling works to be undertaken by Wessex Water to facilitate the fitting of a logger. Any such cost shall be agreed in advance between Wessex Water and the Installer. If such costs cannot be agreed the logger installation shall not proceed.

11. The Installer shall indemnify Wessex Water against any claims arising from poor or negligent installation, operation and maintenance of the logging equipment, including damage to the meter, pipework, meter chamber and associated assets.

12. The Installer agrees to provide, for a reasonable fee, access to any data downloaded from loggers fitted to Wessex Water's meters. In the event such data is not provided by the Installer, Wessex Water may remove the Installers logger, to install its own data logger on the meter.

13. Wessex Water reserves the right to withdraw with immediate effect the general consent to the installation of loggers hereby given if, in its reasonable opinion, the Installer or its sub-contractors are not adhering to these terms.

14. The installer shall utilise the 'non-terminated' end of the splitter lead for connection of their equipment. The military specification connection is reserved for Wessex Water use.

15. In the event of an emergency and in order to protect the assets of Wessex Water and the Installer, Wessex Water reserves the right to temporarily remove any equipment without warning. For planned maintenance, Wessex Water will notify the Installer and request it be temporarily removed and provide timescales when the equipment may be re-installed.

16. In the event of a customer switching retailers and the outgoing retailer has a logger in situ on the meter; the incoming retailer may by private agreement take over the existing logger with no additional charges from Wessex Water. If such an agreement is not reached and the outgoing retailer fails to remove their logger in a reasonable time, Wessex Water shall remove the logger to facilitate a logging facility for the incoming retailer.

Installer: .....

I confirm that I have read, understand and agree the above conditions relating to the installation of data loggers on Wessex Water meters.

..... Signed

..... Position

..... Dated

**Customer:**

On behalf of .....I confirm that I have read, understand and agree the above conditions relating to the installation of data loggers on Wessex Water meters.

.....  
Signed

.....  
Position

.....  
Dated

**Third party:**

On behalf of .....I confirm that I have read, understand and agree the above conditions relating to the installation of data loggers on Wessex Water meters.

.....  
Signed

.....  
Position

.....  
Dated