

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 ₃ = 2.5 m ³ /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 ₃ = 2.5 m ³ /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 ₃ = 4 m ³ /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 ₃ = 4 m ³ /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)	15mm Manifold V210/TPR11	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)	15mm Inline V200/TPR11	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	15mm Manifold V210H	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	20mm Inline V200H	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)	20mm Inline V200	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		
STANDARD METER (25 mm - 40mm)					

Manufacturer	Model	Meter material	Comments
Elster (LUSTD5864)	25mm Inline V200	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. Q₃ = 6.3 m³/h
			Inductive Register : pulse output of 1 pulse per litre
Elster (LUSTF5213)	30mm inline V200	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. Q₃ = 10 m³/h
			Inductive Register : pulse output of 1 pulse per litre
Elster (LUSTM5811)	40mm inline V200	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. Q₃ = 16 m³/h
			Inductive Register : pulse output of 1 pulse per litre
NON-STANDARD METER (25 mm - 40mm)			
Manufacturer	Model	Meter material	Comments
Elster	Inline V200	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.
STANDARD METER (50 mm - 150mm)			
Manufacturer	Model	Meter material	Comments
Sensys	50mm MEISTREAM PN16	Cast Iron	Includes a HRI-Mei pulse output device plus Splitter Box.
			Pulse output = 10 litres per pulse.
			MID Compliant: 35 m³/h

			PN 16 Standard length = 200mm. PN16 Long Lenght = 300mm.
Sensys	80mm MEISTREAM PN16	Cast Iron	Includes a HRI-Mei pulse output device plus Splitter Box.
			Pulse output = 10 litres per pulse.
			MID Compliant: 63 m³/h
			PN 16 Standard length = 200mm. PN16 Long Lenght = 350mm.
Sensys	100mm MEISTREAM PN16	Cast Iron	Includes a HRI-Mei pulse output device plus Splitter Box.
			Pulse output = 10 litres per pulse.
			MID Compliant: 100 m³/h
			PN 16 Standard length = 250mm. PN16 Long Lenght = 350mm.
Sensys	150mm MEISTREAM PN16	Cast Iron	Includes a HRI-Mei pulse output device plus Splitter Box.
			Pulse output = 10 litres per pulse.
			MID Compliant: 250 m³/h
			PN 16 Standard length = 300mm.
STANDARD COMBINATION METER (50 mm and 80mm)			
Manufacturer	Model	Meter material	Comments
Elster	50/20mm C4000	Cast Iron	Includes pulse output devices plus Splitter Box.
			Pulse output = 1 and 10 litres per pulse.
			MID Compliant: Q _{max} Combined 50 m³/h
			PN 16 Standard length = 300mm.
Sensys	80/20mm MeiTwin	Cast Iron	Includes pulse output devices plus Splitter Box.
			Pulse output = 1 and 10 litres per pulse.
			MID Compliant: Q ₃ = 63 m³/h
			PN 16 Standard length = 300mm.
STANDARD - WaterMaster (Full Bore) 200mm to 1400mm			
Manufacturer	Model	Meter material	Comments
ABB	Mains-powered electromagnetic	Stainless Steel	PN16 for OML, MID Approved. Q ₃ Range from 1000 m³/h to 63000 m³/h
			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

Our Ref:

Dear

CODE OF PRACTICE 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 by email for installation to Wessex Water's Distribution Systems Manager, C C Muscat for approval. (Email to chris.muscat@wessexwater.co.uk)
2. The request shall be accompanied by 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 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. Wessex Water will not unreasonably withhold or delay such approval and shall use its reasonable endeavours to provide its approval within five working days of the request for installation being received by Wessex Water.
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 staff. 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 Distribution Systems Manager.
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 log and ancillary any other ancillary equipment.
9. Wessex Water will carry out inspection visits on a percentage of the logger installations undertaken by the Installer. The costs of the visits shall be borne by Wessex Water. However, the Installer shall pay the full costs

incurred by Wessex Water staff in remedying any works that have not been carried out in accordance with the approved method statement or any damage.

10. The Installer shall meet the full costs of any site works or supervision to be undertaken by Wessex Water staff to enable the Installer's staff or contractors to undertake their activities. 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 and hold Wessex Water harmless against all liabilities, costs, claims, loss, demands, damages and expenses arising from its negligence or the negligence of its employees or sub-contractors including but not limited to remedying any damage caused to Wessex Water's meters or to its infrastructure or to any property whatsoever caused by the Installer its employees or its sub-contractors and the death of, or personal injury to, such people or to third parties.
12. The Installer agrees to provide on request and free of charge 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 shall be entitled to either download data direct from the logger or install its own data logger on the meter.
13. For the avoidance of doubt where an obligation is placed on the Installer under these terms it shall be responsible for ensuring that any sub-contractor it employs complies with that obligation.
14. 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.
15. Wessex Water reserves the right on the giving of one month's notice to require the removal of any logger installed by the Installer under these terms.
16. Should the meter have any existing logger installed, then the Installer will have to use the other pulse output options available.
17. Wessex Water reserves the right to have access to the appropriate 10 litres per pulse output on its asset deemed necessary to provide the company with data for its leakage detection programme. This could be retrospective of the granting of permission to install a private pulse output cable on our asset.

I would be grateful if you would be good enough to confirm by return your agreement to the above terms by signing and returning to me one of the copies of this letter.

I look forward to hearing from you.

Yours sincerely

Chris Muscat

Distribution Systems Manager

Wessex Water

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Customer:

On behalf ofI 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 ofI 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