



Water Act 2000 – Form W2F119A

ABN 51 242 471 577

Module A – Water meter validation

Purpose of the form

This form is to be completed by an Authorised Meter Validator¹ for the validation of water meter installations attached to surface water or underground water works extracting water under the authority of the *Water Act 2000*.

Where a water meter meets the requirements of Module A of the *Queensland interim water meter standard for non-urban metering* (interim standard), the authorised meter validator must give the relevant person² a copy of this form as a validation certificate, within 20 business days of an inspection of the water meter.

The relevant person must give a copy of the validation certificate to the Department of Regional Development, Manufacturing and Water within 20 business days of receipt of the validation certificate.

Where a water meter does not meet the requirements of Module A of the interim standard, the authorised meter validator must provide the relevant person with a copy of this form as a validation notice explaining why, and any potential modifications that could allow the meter to become compliant. The relevant person or the authorised meter validator may provide a copy of this notice to the department.

1. Authorised meter validator means a person who is accredited by Irrigation Australia Limited as a 'certified meter installer and validator'. Alternatively, this person can be appointed by the department, where they have the necessary expertise or experience to perform this function.
2. Relevant person means a water authorisation holder, or the owner of works used for taking or interfering with water, or the person nominated to represent them in departmental systems.

Client details (to be completed by the relevant person)

Full name:

If the applicant is a corporation, please supply the ACN:

Client reference no. (if known):

Attention (Optional) (e.g., Principal, Secretary, Managing Director, etc.)

Street address:

Mailing address:

Main contact for this meter validation

The contact details provided will be used by the department for the purpose of communications under the *Water Act 2000*. The department may be required or authorised by legislation to disclose your information to other third parties.

Full name:

Mobile phone:

Alternative phone:

Email:

Privacy statement: Collection of information on this form is authorised by section 112 of the Water Regulation 2016 and will be used by the department for the purpose of processing the validation certificate. The department may be required or authorised by legislation to disclose your information to other third parties. The information may be searchable, disclosed to and used by the public as allowed, authorised or required by legislation.

OFFICE USE
ONLY

Client ref.

Authorisation ref.

Registration
date

Initials

/ /

Office
Stamp
Only

Water Authorisations (to be completed by the relevant person)				
All water extracted through this water meter is to be attributed to these water authorisation(s):				
Does the relevant person own this water meter?		<input type="checkbox"/> Yes <input type="checkbox"/> No Who is the meter owned by _____		
Office use only				
Meter ID:		Dial type:	M	
Location Details (to be completed by the Authorised meter validator)				
Property name / road address (where the meter is located)				
Lot / Plan (where the meter is located)				
Works Details (to be completed by the Authorised meter validator – works numbers to be completed by the relevant person, if known)				
Source and location of extraction of water (if applicable) Specify the source(s) – either 'water in a watercourse, lake or spring' or 'underground water'				
Water in a watercourse, lake, or spring		Name:		
Underground water		Name (if known):		
Is the meter measuring from multiple works? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Works Type#	Works Size <input type="checkbox"/> mm <input type="checkbox"/> metres	Estimated works extraction flow rate <input type="checkbox"/> l/s <input type="checkbox"/> ML/day	Works are	Works number (if known)
		min→ max→	<input type="checkbox"/> fixed <input type="checkbox"/> portable	
		min→ max→	<input type="checkbox"/> fixed <input type="checkbox"/> portable	
Provide a separate attachment if more space is required. # e.g., surface water (sw) gravity – pipe; sw gravity – channel; sw pump - (specify type); underground water (ugw) - pumped; ugw – artesian; other - (please specify).				
Meter ID (to be completed by the Authorised meter validator)				
<input type="checkbox"/> This is post-installation validation, of a new meter installation or a new meter installed as a replacement for the meter listed in 'Replaced meter information' (Measurement assurance requirement F) <input type="checkbox"/> This is ongoing validation (revalidation) under s111 of the Water Regulation 2016 (Measurement assurance requirement G) <input type="checkbox"/> This validation inspection was triggered by the meter becoming faulty under s110AA or s110A of the Water Regulation 2016				
Meter information for meter undergoing validation				
Location details	Latitude: Longitude: Datum: <input type="checkbox"/> GDA2020 <input type="checkbox"/> GDA94 <input type="checkbox"/> WGS84 <input type="checkbox"/> Other:			
Make				
Model				
Serial no.				

Meter type (select one – ‘self-contained’ or ‘modular metering system’)						
<input type="checkbox"/> Self-contained water meter						
Size (mm)						
Remote register <input type="checkbox"/> Yes <input type="checkbox"/> No						
If meter has a remote register, record the flow tube serial number						<input type="checkbox"/> Unable to access flow tube
If meter has a remote register, record the cable length, remote register to flow tube (metres)						<input type="checkbox"/> Unable to confirm cable length
<input type="checkbox"/> Modular metering system						
System type – select one	<input type="checkbox"/> Full Pipe		Size (mm)			
	<input type="checkbox"/> Partially filled pipe		Size (mm)			
	<input type="checkbox"/> Open channel		Maximum width		<input type="checkbox"/> mm <input type="checkbox"/> metres	
System sensors	<input type="checkbox"/> Velocity with depth/height		Number of			
	<input type="checkbox"/> Velocity only		Number of			
	<input type="checkbox"/> Depth/Height only		Number of			
Sensor serial numbers	e.g., Velocity with depth/height		Serial no.		e.g., s/no abcde1234	
			Serial no.		<input type="checkbox"/> unable to access sensor	
			Serial no.		<input type="checkbox"/> unable to access sensor	
			Serial no.		<input type="checkbox"/> unable to access sensor	
Power source (select one – ‘mains powered’ or ‘battery powered’ or ‘no power source’)						
<input type="checkbox"/> No power source						
<input type="checkbox"/> Mains powered						
<input type="checkbox"/> Battery powered	Voltage:				<input type="checkbox"/> With mains electricity trickle charging	
					<input type="checkbox"/> With solar panel charging	
Replaced Meter Information (to be completed by the Authorised meter validator)						
Has the meter been removed from service?						
<input type="checkbox"/> No						
<input type="checkbox"/> Yes → Removal date: / /						
Serial no.				Final reading		
Validation actions (to be completed by the Authorised meter validator)						
Date of inspection						
Other devices connected to the water meter (select no other devices connected, data logger, or transmission device):						
<input type="checkbox"/> No other devices connected						
<input type="checkbox"/> Data logger	Make		Model		Serial no.	
<input type="checkbox"/> Transmission device	Make		Model		Serial no.	
Meter reading at start of inspection		<input type="checkbox"/> Litres <input type="checkbox"/> kilolitres <input type="checkbox"/> megalitres <input type="checkbox"/> cubic meters				

<p>a) As a minimum the water meter generates an electronic pulse output each time a set volume of water passes through the meter.</p> <p><input type="checkbox"/> Yes → Go to b)</p> <p><input type="checkbox"/> No → Water meter not compliant with the interim standard</p>
<p>b) Has water been extracted through the water meter prior to this inspection?</p> <p><input type="checkbox"/> No → Go to c)</p> <p><input type="checkbox"/> Yes → Inspect all mechanical tamper-evident seals. Were any seals found to be broken or missing?</p> <p><input type="checkbox"/> Yes → Date department notified: _____ → go to d)</p> <p><input type="checkbox"/> No → Go to d)</p>
<p>c) Was the water meter installed by an authorised meter validator?</p> <p><input type="checkbox"/> Yes → Certified meter installer and validator (CMI) number: _____ → Go to d)</p> <p><input type="checkbox"/> No → Is this a self-contained meter?</p> <p><input type="checkbox"/> Yes → Conduct an internal check via meter and lead in/out pipework disassembly → <input type="checkbox"/> Complete → Go to d)</p> <p><input type="checkbox"/> No → Go to d)</p>
<p>d) Which sub-section of '3.1 Which water meter can be used' of Module A in the interim standard, does the water meter comply with (Measurement assurance requirement A):</p> <p><input type="checkbox"/> 3.1.1 → Existing meter (Table 1) → Go to e)</p> <p><input type="checkbox"/> 3.1.2 → Modular metering system (Table 2) → Go to e)</p> <p><input type="checkbox"/> 3.1.3 → Pattern-approved meter, certificate number: _____ → Go to e)</p> <p><input type="checkbox"/> None of the above confirmed → Water meter not compliant with the interim standard</p>
<p>e) Is this a new self-contained water meter, or has a new sensor/s been installed for a modular metering system?</p> <p><input type="checkbox"/> No → Go to f)</p> <p><input type="checkbox"/> Yes → Confirm the device/s has a conforming calibration/test certificate (Measurement assurance requirement B)</p> <p><input type="checkbox"/> Confirmed → Certificates attached → Go to f)</p> <p><input type="checkbox"/> Not confirmed → Water meter not compliant with the interim standard</p>
<p>f) Confirm the water meter meets all requirements of '3.2 Fit for purpose' of Module A in the interim standard (Measurement assurance requirement C):</p> <p><input type="checkbox"/> Confirmed → Go to g)</p> <p><input type="checkbox"/> Not confirmed → Water meter not compliant with the interim standard</p>
<p>g) 1. There is no water use offtakes (see the interim standard for requirements) prior to the water meter and extracted water does not bypass the meter?</p> <p><input type="checkbox"/> Confirmed</p> <p><input type="checkbox"/> Not confirmed → Water meter not compliant with the interim standard</p> <p>→ Describe why:</p> <p>g) 2. Is this a full pipe meter?</p> <p><input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes → Confirm the water meter will always run full while measuring?</p> <p><input type="checkbox"/> Confirmed</p> <p><input type="checkbox"/> Not confirmed → Water meter not compliant with the interim standard</p> <p>g) 3. Is this a self-contained water meter that has configurable calibration parameters?</p> <p><input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes → Confirm that these parameters are consistent with the meter's factory calibration:</p> <p><input type="checkbox"/> Confirmed → A list of configurable parameters is attached</p> <p><input type="checkbox"/> Not confirmed → Water meter not compliant with the interim standard</p> <p>g) 4. Does the water meter have both, a pattern approval certificate and software?</p> <p><input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes → Confirm that the software versions comply with the certificate:</p> <p><input type="checkbox"/> Confirmed</p> <p><input type="checkbox"/> Not confirmed → Water meter not compliant with the interim standard</p>

g) 5. Does the water meter have a flow computer which allows notification of error conditions?

- ☐ No
- ☐ Yes → Confirm that no such conditions are active:
 - ☐ Confirmed
 - ☐ Not confirmed → water meter not compliant with the interim standard
 - ☐ New meter installation → ☐ Water has been passed through the meter ☐ Water not available

g) 6. Can the water meter perform system diagnostics?

- ☐ No
- ☐ Yes → Perform diagnostics, record and attach results → Is this ongoing validation (revalidation)?
 - ☐ No
 - ☐ Yes → Are post-installation diagnostics available?
 - ☐ No
 - ☐ Yes → Analyse changes and refer meter for maintenance where changes will impact meter performance
 - ☐ Complete
 - ☐ Not complete → Water meter not compliant with the interim standard

g) 7. Does the water meter have a battery?

- ☐ No
- ☐ Yes → Record the date the battery must be replaced → Replace battery by date: _____
 - ☐ Tag on meter
 - ☐ Label inside meter cover or door
 - ☐ Not recorded at meter → Water meter not compliant with the interim standard

g) 8. For a water meter with water extraction using a pump, have you completed an operational check on the performance of the meter installation?

- ☐ Yes → Using another water meter
- ☐ Yes → Using the pump curve
- ☐ No → Water not available at the site

g) 9. Confirm the water meter meets all other requirements of '3.3 Installation' of Module A of the interim standard (Measurement assurance requirement D):

- ☐ Confirmed → Go to h)
- ☐ Not confirmed → Water meter not compliant with the interim standard

h) Is this ongoing validation (revalidation) or validation due to a meter becoming faulty?

- ☐ No → Go to i)
- ☐ Yes → Confirm maintenance of the meter meets all requirements of '3.4 Maintenance' of Module A of the interim standard (Measurement assurance requirement E):
 - ☐ Confirmed → Maintenance report has been prepared and provided → go to i)
 - ☐ Not confirmed → Water meter not compliant with the interim standard

i) 1. Does the water meter or attached devices have electronic sealing (password/s)?

- ☐ No
- ☐ Yes → Confirm you have applied the seal/s so the relevant person can access the device/s to read only, and so they cannot edit configuration parameters or write/delete data:
 - ☐ Confirmed → Record relevant person level password: _____
 - ☐ Not confirmed → Water meter not compliant with the interim standard

i) 2. Does the water meter have a pattern approval certificate?

- ☐ No
- ☐ Yes → Confirm that mechanical tamper-evident seals referenced in the certificate are in place:
 - ☐ Confirmed
 - ☐ Not confirmed → water meter not compliant with the interim standard

i) 3. Is this a self-contained water meter? <input type="checkbox"/> Yes → Confirm that mechanical tamper-evident seals have been applied to: lead-in pipework back to the point of extraction; the meter; and lead-out pipework: <input type="checkbox"/> Confirmed <input type="checkbox"/> Not confirmed → Water meter not compliant with the interim standard <input type="checkbox"/> No → Modular metering system → Confirm that mechanical tamper-evident seals have been applied to the controller mounting and any access door and sensor mountings <input type="checkbox"/> Confirmed <input type="checkbox"/> Not confirmed → water meter not compliant with the interim standard	
Meter reading at completion of inspection	<input type="checkbox"/> Litres <input type="checkbox"/> kilolitres <input type="checkbox"/> megalitres <input type="checkbox"/> cubic meters
Supporting documentation	
<input type="checkbox"/> Photos	- of serial number/s - of meter reading, showing dial or display - of a tamper evident seal, showing type and approach used - of upstream extent showing the water meter or sensor - of downstream extent showing the water meter or sensor - of the overall metering site
<input type="checkbox"/> Calibration/test certificate/s	- required for a new self-contained water meter, or where new sensor/s have been installed for a modular metering system
<input type="checkbox"/> Mechanical tamper-evident seals list	- with each unique seal number and its location on the metering installation
<input type="checkbox"/> Diagnostics record, included analysis where post installation record available	- required where the water meter can complete system diagnostics
<input type="checkbox"/> Configuration settings	- required where the water meter has configurable parameters – this is a record of these settings
<input type="checkbox"/> Maintenance report	- required where this is ongoing validation (revalidation) of an existing water meter
<input type="checkbox"/> Open channel calibration report	- required for large or highly variable installations: → cross-section survey, including date/s → calibration method and measurements → discharge relationship
Authorised meter validator Declaration	
I declare that I have undertaken the validation actions described above and the responses provided are true and correct. This is a (select one): <input type="checkbox"/> Validation certificate confirming the water meter installation complies with the requirements of Module A of the interim standard. <input type="checkbox"/> Notice the water meter installation does not comply with the requirements of Module A of the interim standard, and a copy of the notice has been provided to the department. Review 'Validation actions' to see why the meter installation does not comply.	
Name:	CMI No.:
Business name:	
Email:	Phone:
Signature:	Date: / /
A copy of this form and supporting documentation was provided to the relevant person (record relevant person name and the date it was provided):	
Name:	Date: / /