



Form RS1 Piped takes, water meter, datalogger installation/ commissioning and verification.

This form must be completed by the installer or verifier of the installation and attached with requested photographs then returned to watermetering@orc.govt.nz

Verification:

Installation/Commissioning:

RESOURCE CONSENT AND LOCATION DETAILS

Consent Number:

Consent Holder's Name:

Address of take:

GPS Meter Location (NZTM)

Easting:

Northing:

GPS Water Take Location(NZTM)

Easting:

Northing:

Location Description:

Well Number:

Well tag attached:

Yes

No

WM Number:

Date of Verification:

PIPE DETAILS

Pipe Internal Diameter:

mm

Pipe External Diameter:

mm

Pipe Wall Thickness:

mm

Pipe Material:

Distance of straight unobstructed pipe upstream of water meter

mm

Distance of straight unobstructed pipe downstream of water meter

mm

Has the installation been set up to allow for a flow rig to be used?

Yes

No

FOR NEW/REPLACEMENT INSTALLATIONS: Please state the manufacturers specifications for straight length of pipe upstream and downstream of meter and other information e.g Location of the valves or direction of flow.

Installation should include a suitable pipe to allow the appropriate use of a portable clamp-on independent meter; or a section of pipe with flanges to allow an independent meter to be inserted in-law

Please attach with this document; pictures of the set up of pipework, meter and set up showing lengths.

ULTRASONIC METERS ONLY

Transducer Size:

Transducer Spacing:

Transducer Mounting: Reflect: Direct:

METER DETAILS

Model:

Pulse Output Units:

Make:

Pulse per m3:

Serial Number:

Installer:

Start Meter Reading Volume:

DATALOGGER DETAILS

Installed: Yes No

Telemetry installed for consent compliance: Yes No

Model:

Telemetered daily to ORC: Yes No

Make:

Data Hosted By:

Meter Type:

Serial Number:

REFERENCE METER CONFIGURATION

Equipment Used:

Reference Meter:

Serial Number:

Size:

Volume Per Pulse:

Last Certified:

Please provide details of the verification method used

ACCURACY DETAILS

Do you have the water meter calibration certificate	Yes	No	(If Yes, please submit the certificate)
Has the meter been checked against a portable water meter?	Yes	No	

MEASURED FLOWS

Verification test should be conducted for the typical flow rate of the system with a minimum 3 replicates, and record and complete the meter comparison in the table below.

The verification test volume and duration should be sufficient so that they do not influence the test uncertainty. If a change in set-up is required please carry out all 5 runs, and comment in the comment section explaining the change and the reason.

Run	1	2	3	4	5	6
Duration						
Test Meter Volume (Vtest) (m3)						
Reference Volume (Vref) (m3)						
Flow Rate for Test (Qref) (m3/sec)						
Meter Comparison $((V_{test} - V_{ref})/v_{test}) \times 100 - (\%)$						
Average (%)			Final Meter Reading		Time	
Why were these extra tests carried out at these limits?						

Comment: e.g note if they have had to change the set-up, if there are some other factors are occurring at the time. Please provide explanation of any results over 5%.

Please provide photographs; of the verification meter installation and of the test meter, meter reading before and after the test

INSERTION METER ONLY

Insertion Depth:

K-Factor:

CERTIFICATION

I/we certify that the above water meter/measuring device has been verified and the measured flow is within 5% of the verification device

I/we have found that the installed water meter/measuring device deviates more than 5% from the verified flow.

Recommend remedial action:

This certificate is valid for 5 years from the date of issue, or as required by consent conditions, whichever the shortest time frame, and is subject to on-going surveillance.

It is the requirement of this certificate that you inform the Consenting Authority of any adjustment/modification to the measuring device OR of its installation.

Verified by

Signature:

Company

Date:

Is the person/company accredited by the National Water Measurement and Reporting - Industry Accreditation Program?

Yes

No