



APPLICATION BRIEF

GROUND WATER MEASUREMENT

May 21, 2025

PROJECT OVERVIEW

There are many reasons to measure water when extracted from the ground.

Government agency requirement

Government agencies often require measuring groundwater from wells to analyze how water moves through aquifers and wells, which is essential for effective groundwater management, site characterization, and environmental protection.

Monitoring groundwater from wells preserves pumps.

When flowrates start to reduce, users will turn off the pump. Reduced flowrate indicates potential water depletion, which can cause pump failure and costly repairs. By turning the pump off when the flowrate decreases, the user can avoid damage and the need to repair or replace a costly pump.

Ensure compliance with water allocations.

Water authorities often limit how much water users can draw from a well to preserve the aquifer level. Being able to monitor usage per well allows farmers to stay within these allocations and avoid fines.

Irrigation monitoring

When groundwater is used for agricultural irrigation, farmers use flow meters to ensure they put the right amount of water on their crops based on their specific conditions, not too much or too little. This ensures optimal crop health, resulting in maximum yields.

PRODUCT SPECIFICATIONS

G2

- 316 Stainless Steel
- Fits pipe sizes ½ in., ¾ in., 1 in., 1½ in., 2 in.
- Accuracy of reading: ± 0.75% to ± 1.5% based on line size
- Max working temperature: 0°F to +129°F (-18°C to +54°C)
- Battery operated display – no wiring required
- Optional 4-20mA and scaled pulse available
- Remote-mounted display option



TM

- PVC housing
- Fits pipe sizes ½ in., ¾ in., 1 in., 1½ in., 2 in., 3 in., 4 in.
- Accuracy of reading: ± 3%
- Max working temperature: +32°F to +140°F (0°C to +60°C)
- Battery operated display – no wiring required
- Optional 4-20mA and scaled pulse available
- Remote-mounted display option



PRODUCT SPECIFICATIONS - CONT.**DP**

- Plastic and Steel Pipes up to 100"
- Max working temperature: -40°F to +300°F (-40°C to +150°C)
- Optional 4-20mA and scaled pulse available
- Remote-mounted display option
- Battery operated display - no wiring required

**AQUAsonic®**

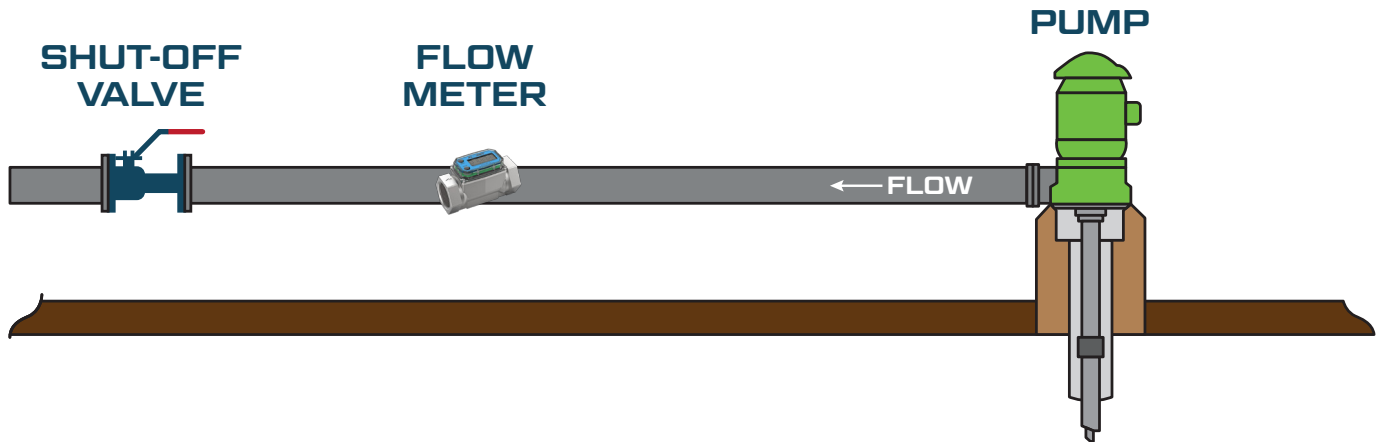
- Schedule 80 PVC Tees, 1", 1½", 2", 3", Saddle mounted for 6", 8", 10", 12" pipes
- Max working temperature: 32°F to +140°F (0°C to +60°C)
- Battery Powered Local display – no wiring required
- No rotating components, no bearings to wear
- Can handle sand and silt from wells
- Can handle light organic loading (strained)
- Ease of installation. Fast install on 6" to 12" lines
- Wide flow range. 150:1 turndown!
- 2% accuracy across flow range
- Variety of end connections
- Competitively priced
- NSF rating on Tee configurations

**FLOMEC® QS200 with RT40**

- Schedule 80 PVC Tees, 1", 1½", 2", 3", Saddle mounted for 6", 8", 10", 12" pipes
- Max working temperature: 32°F to +140°F (0°C to +60°C)
- Remotely Mounted RT40 display with pulse output
- No rotating components, no bearings to wear
- Can handle sand and silt from wells
- Can handle light organic loading (strained)
- Ease of installation. Fast install on 6" to 12" lines
- Wide flow range. 150:1 turndown!
- 2% accuracy across flow range
- Competitively priced



GROUND WATER MEASUREMENT FOR ACCURATE WATER READINGS



PRODUCT SOLUTION

FLOMEC[®]'s turbine, impeller, and ultrasonic flow meters are an excellent choice for measuring groundwater. We have solutions for pipes from ½" to 12". FLOMEC[®] flow meters have remote display mounting options and pulse and 4-20mA output options for transmitting signals to control devices.

The G2 Flow Meter is an accurate choice for steel pipes from ½" to 2", and the TM Flow Meter is a great choice for plastic pipes from ½" to 4".

The DP Series Insertion Flow Meter is a great solution for metal or plastic pipes 1½" to 35". Installation is easy, drill a hole in the pipe and mount it to the proper depth with a saddle. There are 2 transmitter/display options. One with a pulse output and the other with 4-20mA output.

For applications that only need a local read, the battery-powered AQUAsonic[®] Flow Meter is a great choice for pipes from 1" to 12".

For applications where the pipe is below grade or you just want a remotely mounted display, the QS200 with RT40 is an excellent option for pipes from 1" to 12". The RT40 also comes standard with a pulse output.