

HONEYWELL'S WATER METER

Supports Accurate Real-Time Distribution Network Analysis

Case Study

Good quality water supply is provided for the entire population in the Netherlands. Water consumption is one of the lowest in developed countries at 128 litres per capita per day and water leakage in the distribution network is one of the lowest in the world at only 6%.

THE NEEDS

Evides Waterbedrijf required measurement of turbidity and flow to monitor water quality in the distribution network and manage the network. Until recently, this data had been recorded manually and analysed with outdated equipment. This process no longer fitted with the strategic pillar "digitising primary processes" which was an important aim of the Netherlands water provider.

Evides Waterbedrijf developed an all-in-one measuring device which allowed them to make all distribution network measurements. During the measurement process, turbidity, flow and GPS location were all recorded and logged in real-time from the field. This data could be used to determine water quality of the distribution network, assess the effectiveness of previously implemented drainage actions and continue to optimise drainage plans. The process being largely automated.

The flow meter was part of the total standpipe solution which was lightweight and easy to dismantle in the field.

THE SOLUTION

To support the needs of Evides Waterbedrijf, Honeywell Smart Energy offered their Q4000 electromagnetic meter as part of the standpipe solution. Featuring high quality design and engineering, Honeywell's Q4000 electromagnetic water meter is built for maintaining highly accurate performance and lasting durability in demanding environments.

With an unrestricted flow tube with no moving parts and a 10-year battery life, the Q4000 offers unrivalled performance for an electromagnetic water meter. Delivering consistent accuracy over a wide flow-rate measuring range, the meter can be adapted to suit either predominantly high or low flow rates, and is ideal for distribution network applications.



The Q4000 is a high-performing electromagnetic meter, ideal for network management and leakage monitoring.

Honeywell

THE BENEFITS

The Q4000 from Honeywell Smart Energy is a high-performing electromagnetic meter, ideal for bulk flow metering applications such as network management and leakage monitoring.

- It has a fast continuous sampling rate, providing highly accurate and reliable measurement.
- The Q4000's extremely tough stainless steel construction ensures a long working life, while its lightweight body makes storage, transportation and installation both simpler and safer.
- With an unrestricted flow tube, the Q4000 ensures minimal pressure

loss, even at the highest flow rates, resulting in reduced network system pressures, helping to prevent leakage from burst pipes.

- A large, bright and easy-to-read LCD, showing volume and instantaneous flow rate, is ideal for real-time network control and water management.
- With the Q4000's 10-year continuous battery life and no need for calibration, expensive regular maintenance is a thing of the past.
- With bi-directional pulse outputs, the Q4000 provides dependable connectivity to critical water management systems including AMR and data logging devices.



The Q4000 water meter forms part of the total standpipe solution.

GERWIN POLLEMANS, OPERATION AND MANAGEMENT FOR EVIDES WATERBEDRIJF:

“Evides Waterbedrijf incorporated the Q4000 electromagnetic meter into its standpipe measuring solution for recording turbidity, flow and GPS location, supporting accurate real-time measurement of water quality and control of the distribution network.”

ABOUT EVIDES WATERBEDRIJF

Evides Waterbedrijf supplies safe and clean drinking water 24 hours a day, 365 days a year to 2.5 million customers and the business community in Zeeland, in the South West of Holland and the Brabantse Wal. Additionally, Evides Waterbedrijf offers tailor-made industrial water services to large industrial customers in the Netherlands, Belgium and Germany.

For more information

www.honeywellsmartenergy.com

Elster Water Metering Ltd

130 Camford Way
Sundon Park, Luton
Bedfordshire, LU3 3AN
United Kingdom
T +44 1582 846400
F +44 1582 564728
water.metering@elster.com

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