

MEASUREMENT TASK

One of the principal role of all water companies is ensuring the supply of clean drinking water through their pipeline distribution network. In order to facilitate this process there is a requirement for metering of both main and sub-distribution pipelines.

The second facet of the water sector is managing the large volumes of wastewater generated within the network and providing safe processing and disposal of the sewage products.

Both the clean water and effluent are often transported in large pipes of different pipe materials constituting the backbone of drinking water supply networks. Most of these pipes have been in operation for some considerable time leading to varying pipe quality and accessibility, which can make the installation of invasive metering technologies difficult.

SOLUTION

One customer who has taken advantage of the flexibility and functionality of the Katronic flowmeters is Wessex Water who purchased a KATflow 200 for their wastewater monitoring team. The hand-held flowmeter has been put into use on a range of different applications including both sewage and sewage sludge measurement. These two alternative scenarios presented their own challenges.

The sewage applications were frequently found in inaccessible locations on large diameter pipes. The sludge measurements were difficult owing more to the general pipe condition and the higher density of the product being metered. In both instances the versatile KATflow 200 gave reliable and repeatable results.

ADVANTAGES

- Lower TOTEX than purchase of an in-line flowmeter
- Flow measurement is not dependant on pipe material
- Installation can be done on concrete-lined pipes
- One portable flowmeter can cover a range of applications
- Dual-channel flowmeters improve cost-effectiveness
- Maintenance free, very low MTBR (mean time between repairs)

SPECIFICATIONS

Installation type	Portable
Media	Sewage and sewage sludge
Pipe materials	Steel and ductile iron
Pipe diameters	100 ... 1,400 mm
Temperature	Ambient
Flow rate	Up to 200 l/s

APPLICATION



KATflow 200 installed on large sewage pipe

INSTRUMENT SOLUTION



The KATflow 200 in use with installed K4N sensors