Panametrics
a Baker Hughes business

Application note

PT900 check meter

Benefits:

- Easy installation
- Wireless Operation
- Easy Data logging
- Panametrics designed systems maximize uptime

Summary

In Northern China there are many water plants with lots of large electromagnetic flow meters. Per local regulation these need to be verified once a year. The verification is a cumbersome process, takes a lot time and money for the water plants.

Application

A plant operator needed a check meter that could install easily, without interrupting the flow, to assess the installed electromagnetic meter. The verification should obtain a measurement error between the two meters that stays within an acceptable ±2% error limit, then inline meter verification cycle can be extended to 2 years or more.

Challenge

The following features were required from the check meter:

1. Accuracy within ±1% of reading
2. Online data storage for a month
3. 2 channels

Solution

The Panametrics Transport PT900 clamp on flow meter was used with C-RS 401 transducer to verify a DN800 (32") Mag meter for a three-month period. The average difference between the meters were below 1.5%.

Total	Mag (M3/h)	UFM (M3/h)	Error%
3 Months	4039075.8	3988992.6	-1.2%

The customer was satisfied with Transport PT900 performance and ordered two additional units. The customer managed to reduce their maintenance budget while increased the plant availability and yield.

Per avere più informazioni
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