

OPTIFLUX replaces a complete measuring system



KROHNE OPTIFLUX 4300F

The "Amt für Industrielle Betriebe", a water purification authority in the Swiss Canton of Basel, has been using electro-magnetic flowmeters (EMF) from KROHNE for several years. The authority, which processes 35 million cubic meters of sewage per year in its catchment area, has replaced its measuring equipment with an OPTIFLUX 4300F. This KROHNE product ensures that the quantity of water that flows from the catchment area to the processing facility is measured to the last drop, but that is not all. As it measures various parameters, it makes the second and third measuring devices redundant.

To provide exact measurements of the water flowing from the catchment area to the sewage processing facility, the Swiss body needs a reliable device, which can communicate various measurements to the PLC simultaneously.

The OPTIFLUX 4300F meets this challenge. With three types of comprehensive diagnostics, including applications diagnostics, device diagnostics and precision and linearity tests (out of spec diagnostics), and the EMF makes a considerable contribution to the calculation of exact sewage quantities. The OPTIFLUX provides information about flow volume in Liters/second and advises of any device faults that may arise through the status output. An integrated pulse output sends a signal for every cubic meter of sewage, which passes. A minimum limit value has also been programmed.

So the water purification authority receives reliable information about the status of the device, the quality of measurement and possible application errors. Measurements are more reliable than those from devices with the normal SIL2 standard. OPTIFLUX also exceeds the requirements of VDI/VDE/NAMUR-2650.

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