

Preventive maintenance of the water infrastructure with Testo thermal imagers.

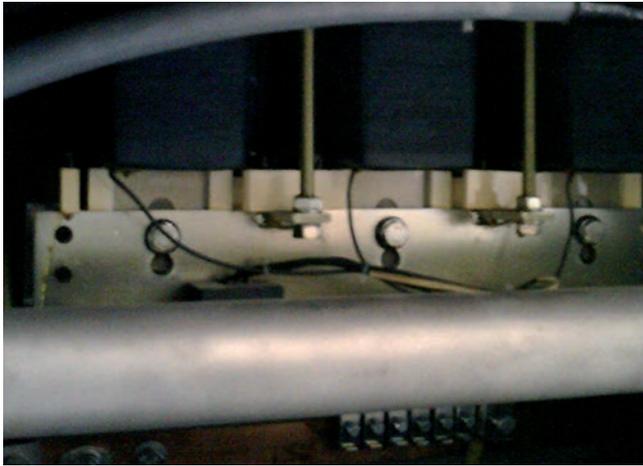


A valuable commodity – monitored with high tech.

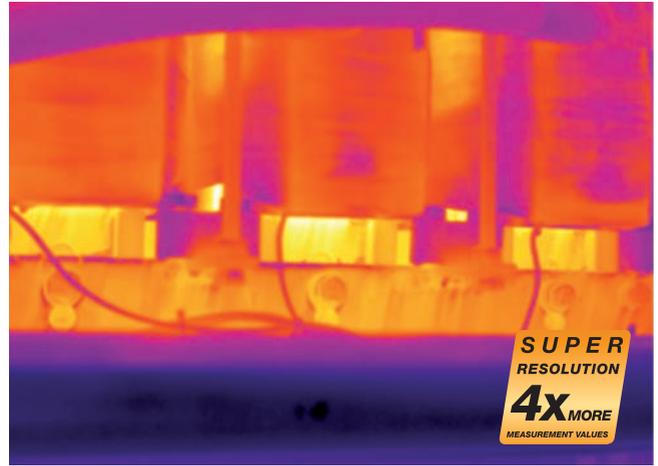
Fresh drinking water is taken for granted in every household. However, it only becomes apparent how valuable this resource is, and what a crucial factor it is in everyday life, when the water suddenly no longer comes out of the tap as usual. For many people in the Hesse region of Germany, the Oberhessische Versorgungsbetriebe AG is responsible for making sure that it never comes to this. In order to prevent supply cuts, the OVAG uses the thermal imager testo 885 to test its pipelines and electrical systems for damage and weak spots. With SuperResolution technology, easy handling and ergonomic design, the imager supports the company in always reliably supplying customers with drinking water.

Oberhessische Versorgungsbetriebe AG

The OVAG has been supplying the region to the north-east of Frankfurt am Main with water for over 100 years. The company operates 24 deep wells with an average depth of up to 100 metres in the extraction areas. In total, the extraction area covers 129 towns, villages and communities, 73 of which are supplied by a 246-kilometre long pipeline network. With an annual extraction volume of 34 million cubic metres, the Oberhessische Versorgungsbetriebe are the second largest in Hesse, and in the top 25 in Germany.



Real image of an electronic choke (rear)



The choke in a thermal image with Testo SuperResolution

The challenge.

The security of uninterrupted water supply by OVAG in their towns, villages and communities was 99%. That sounds very good at first, but in detail, it would mean that consumers would be without water supply for 3 days per year. The utilities company wanted to improve that by using thermal imagers. Possible damage was to be identified and remedied before it could even occur. This would mean that the water supply would not need to be interrupted, and ideally the consumers would not even notice the incident.

The solution.

In order to detect potential operative disturbances before they could endanger supply security as real problems, the company chose the thermal imager testo 885. The deciding argument was the imager's SuperResolution technology, which quadruples the original resolution from 320 x 240 pixels to 640 x 480 pixels. Thanks to the thermal sensitivity of < 30 mK, even slight changes in the water temperature are clearly displayed in the testo 885. This is very important for OVAG, as even small deviations can influence the water transport. A further advantage is the built-in panorama assistant. It allows the analysis and documentation of a total image consisting of several individual images. This

facilitates work especially on large measurement objects such as switching cabinets.



The advantages.

In addition to the high resolution, the easy handling and the ergonomic design of the testo 885 convinced the people at Oberhessische Versorgungsbetriebe. Whether when testing water pipes or in the servicing and maintenance of motors and pumps – in day-to-day work, the versatile thermal imager has proven its worth in the most varied applications, and is in future to become a fixture in all maintenance tours conducted by OVAG.

“Thanks to the tests carried out on electro-technical system with the testo 885, our fast response group was able to identify and remedy weak spots early. This means we have fewer downtimes and almost 100 percent supply. The investment in a Testo thermal imager has definitely paid off.”

Peter Wahrenbruch, Electrical Technology Engineer, OVAG

More information.

More information on the thermal imager testo 885, the SuperResolution technology and answers to all your questions concerning thermography at Eurotec.

EUROTEC
 People • Technology • Solutions
 HEAD OFFICE : AUCKLAND Tel : (09) 579 1990
 WELLINGTON : Tel : (04) 499 3591 CHRISTCHURCH : Tel : (03) 366 0017
 Email : sales@eurotec.co.nz WEBSITE : www.eurotec.co.nz

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