

We measure it.



# Customised probes for your application

## The application

### Accuracy

In a laboratory, temperatures with an accuracy of  $\pm 0.3$  °C need to be carried out in an immersion tank. The temperature of the water in the immersion tank must be tested in order to ascertain whether it is actually 80 °C. The temperature measuring instrument testo 735 will be used for this. At the prevailing temperature of 80 °C, this instrument has an accuracy of  $\pm 0.2$  °C. In order to guarantee a system accuracy (sum of instrument and probe accuracy) of  $\pm 0.3$  °C, the temperature probe should have a deviation of  $\pm 0.1$  °C maximum. The waterproof immersion/penetration probe, item number 0609 1273, will be used for this application. It has an accuracy of  $\pm 0.31$  °C as standard. Consequently, the system accuracy is  $\pm 0.61$  °C.



## The solution

### Customisation

Since the accuracy of the immersion/penetration probe is insufficient, in order to fulfil the customer's needs Testo AG manufactures the probe exactly to customer requirements: the sensor (Pt 100, class A) is replaced by a sensor that is more precise (Pt 100, 1/10 class B). The customized immersion/penetration probe 0609 1273 now has an accuracy of  $\pm 0.07$  °C at a temperature of +80 °C. At a temperature of +80 °C, the system accuracy is  $\pm 0.27$  °C. The requirements for the measurement equipment could be met thanks to the replacement of the sensor. The customer gets a probe that is tailored specifically to his/her application.



### More info

For detailed information and answers to your queries relating to customised probes, please contact our experts on 01420 544433 or visit [www.testolimited.com](http://www.testolimited.com)

**Testo Limited**  
Newman Lane, Alton, Hampshire, GU34 2UR  
Tel 01420 544433  
E-mail [info@testo.co.uk](mailto:info@testo.co.uk)