



Deutscher Verein des  
Gas- und Wasserfaches e.V.



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# Technical Rule – Standard **DVGW W 110 (A)** May 2019

**Well logging in open boreholes and wells for groundwater  
exploration and monitoring**

Bohrlochgeophysik in Bohrungen, Brunnen und Grundwasser-  
messstellen

**WATER**

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# Well logging in open boreholes and wells for groundwater exploration and monitoring

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## **Foreword**

This Standard has been elaborated by the “119-07-03-08-PK-W110” project group of the DIN-DVGW-Working Group on “Water Extraction”. It intends to serve as a basis for the application of geophysical well-logging techniques.

During the course of the last decades, geophysical logging solutions have become an efficient support and rationalisation tool for use in water exploration and development. Thanks to an abundance of available methods it is now possible to measure almost every physical borehole parameter. The processes employed, their modifications and names and the possibilities to obtain reliable information are just as diverse and, therefore, hardly manageable by non-specialists.

This Standard therefore undertakes to create a standardised system that covers the most important logging techniques employed in groundwater exploration and abstraction as well as their underlying principles and the information they may provide, taking into account the survey objectives.

In so doing, it exclusively covers standard logging applications for making geophysical measurements in groundwater. Any other applications that go beyond the scope mentioned above shall only serve as guidance for the user.

This Standard intends to offer guidance for the beneficial use of geophysical logging measurements. It aims to help the user find the optimal combination of logging techniques for a defined task as early as in the concept phase of borehole surveys in vertical and, where due to design constraints, partially also in horizontal filter wells as well as in groundwater monitoring points. It is by no means a tool for evaluating and interpreting geophysical measurements, a field that in the course of the last decade has evolved into an almost autonomous scientific discipline and, therefore, should be reserved for the relevant experts to engage in.

This Standard supersedes DVGW Standard W 110:2005-06.

## **Amendments**

The following amendments have been made in comparison with DVGW Standard W 110:2005-06:

- a) Partial revision of content

## **Earlier editions**

DVGW W 110 (M):1990-06, DVGW W 110 (A):2005-06