



# Industrial Moisture and Humidity Measurement: A Practical Guide

By Roland Wernecke, Jan Wernecke

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Moisture analysis covers a variety of methods for measuring high levels of moisture, as well as trace amounts, in solids, liquids, or gases. There are many applications where trace moisture measurements are indispensable for manufacturing and for process quality assurance. Trace moisture in solids must be controlled for plastics, pharmaceuticals and heat treatment processes. Measurement applications in gases and liquids include, for example, drying processes, hydrocarbon processing, pure gases in the semiconductor industry, natural gas pipeline transport, the conditioning of food and other products.

Written by experts with over 20 years of experience in the field, this one-stop guide covers all aspects of these measurements, including both the theory and a wealth of practical know-how. As such, it includes guidelines on installation, on the realization of standards for absolute and relative humidity, verification and traceability measurements, equipment calibration methods and the latest research developments.

Backed by numerous case studies, this practical book serves the needs of those working in the industry tasked with performing or developing new techniques and processes for moisture and humidity measurement. As a result, the scientist or engineer has all the information required for accurate, reliable, economically viable and efficient moisture measurement.

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About the Author

Dr. Roland Wernecke has been the manager of a company which develops and manufactures moisture measurement devices for industry and laboratories for over 20 years. He obtained his academic degrees from the University of Dresden and the Academy of Science, Germany. Dr. Wernecke is a member of numerous technical committees and organisations for standards. He advises companies and organizes seminars and workshops on moisture and humidity measurement for industry and research. He is involved in numerous cooperations with institutes and universities in the development of new methods for the measurement of moisture and humidity in gases, liquids and solid materials.

Jan Wernecke is a physicist at the Physikalisch-Technische Bundesanstalt, the German national metrology institute, where he is currently finishing his PhD thesis. He studied physics at the Friedrich-Schiller University in Jena, at the Université Joseph Fourier Grenoble, and at the Australian National University in Canberra. He gained experience in the fundamentals and practical aspects of moisture and humidity measurement during various project works, for example on ambient climate monitoring and on the survival of organisms in a simulated Mars atmosphere.

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