

Reference	Title
ISBN 0-904457-24-9	A guide to the measurement of humidity A guide to the measurement of humidity - NPL
GPG102	Absorption and diffusion of moisture In polymeric materials Absorption and diffusion of moisture In polymeric materials - NPL
GPG125	Introduction to temperature measurement Introduction to temperature measurement GPG125 - NPL
GPG124	The beginner's guide to humidity measurement The beginner's guide to humidity measurement GPG124 - NPL

NPL Good Practice Guides (GPG)

NPL's Good Practice Guides are a practical and informative series of documents designed to meet the needs of industry. They are a user-friendly way to find out about what to measure, how to measure it and how to understand the results. Based on NPL's expertise and experience, the guides will enable you, your customers and your suppliers to be in agreement on measurement issues.

Annex – Abstracts

<p>ISBN 0-904457-24-9</p>	<p>This Guide has been written to meet the need for a basic advisory document for users of humidity instrumentation. For humidity, as for other fields of measurement, a consistent and harmonised approach is increasingly important, as is a common understanding of the terms used to define and describe humidity measurement. This Guide brings together information about humidity measurement which exists already in the public domain but is in many cases difficult to obtain, poorly expressed, or widely misunderstood.</p>
<p>GPG10 2</p>	<p>Accurate modelling of the absorption of moisture into engineering polymers is needed to design exposure procedures for durability assessment and carry out reliable lifetime predictions. This needs to be supported by good quality data obtained under representative conditions. This Guide describes methods for measuring the absorption and diffusion of moisture in polymeric materials, including plastics, adhesives, and composites. Factors that will affect moisture absorption, including service conditions (temperature, pressure, and stress) and the manufacture process (e.g., state of cure), are also covered.</p>
<p>GPG12 5</p>	<p>This guide is an introduction to basic concepts and types of instrument used in temperature measurement. For each instrument, the technical features, practical issues, applications and sources of error are discussed.</p>
<p>GPG12 4</p>	<p>This is a guide to humidity measurement for beginners. It introduces the concept of humidity, and the basics of making a reliable humidity measurement.</p>