



ESDU TECHNICAL MEMORANDUM

Mumeter Mk 6: a continuous friction measuring device. Evaluation on test surfaces at Nantes

K.J. Balkwill



**ROYAL
AERONAUTICAL
SOCIETY**

Endorsed by
The Royal Aeronautical Society

ESDU TECHNICAL MEMORANDA

ESDU Technical Memoranda are prepared from time to time to provide a formal means of presentation for work that is not issued as a Data Item. The main reasons for preparing an ESDU Technical Memorandum are as follows.

- Much of the work done in the preparation of a Data Item, such as data correlations or analytical studies, can be brought together in a Technical Memorandum which can then be quoted as one of the Derivations or References in the Data Item. Such a Memorandum therefore provides a formal record of the data or methods given in the Data Item itself.
- When ESDU takes on an external contract a Memorandum is used as the vehicle for formally reporting that work.

THE PREPARATION OF THIS TECHNICAL MEMORANDUM

The work on this particular Technical Memorandum monitored and guided by the Performance Committee. This Committee first met in 1946 and now has the following membership:

Chairman

Mr G.J.R. Skillen — Independent, UK

Vice-Chairman

Mr K.J. Balkwill — Independent, UK

Members

Mr P.V. Aidala *	— Northrop Grumman ESID, Bethpage, New York, USA
Dr J.D. Avery	— Independent, UK
Mr M. Broad	— Independent, UK
Mr A. Dalton	— MOD, Boscombe Down, UK
Mr G. van Es	— National Aerospace Laboratory NLR, The Netherlands
Mr N.J. Herniman *	— Independent, France
Mr M. Holcomb *	— Independent, USA
Mr R.G. Humpston	— Rolls-Royce plc, Aero Division, Derby, UK
Mr L. Kornstaedt	— Airbus Industrie, Toulouse, France
Mr D.A. Law	— Civil Aviation Authority, Gatwick, UK
Mr P.E.C.S. Magalhaes	— Embraer, Brazil
Mr R.J. Orlowski *	— Boeing Commercial Airplane Company, Seattle, Washington, USA
Dr P. Render	— Loughborough University, UK
Mr G.E. Smith	— Independent, UK
Mr R. Storey	— BAE SYSTEMS, Brough, UK
Mr J. Tempest	— de Havilland Support Ltd, UK
Mr S. Tsach *	— Israel Aircraft Industries, Jerusalem, Israel
Mr C.J. Turner *	— Boeing Commercial Airplane Company, Seattle, Washington, USA.

* Corresponding Member

The development and preparation of this Technical Memorandum was undertaken by

Mr K.J. Balkwill — Consultant to ESDU.

This Technical Memorandum was originally written for Douglas Equipment, a business unit of Curtiss-Wright Flow Control (UK) Ltd, as part of an evaluation of their Mumeter Mk 6. Douglas Equipment have kindly agreed to this publication by ESDU.

MUMETER MK 6: A CONTINUOUS FRICTION MEASURING DEVICE. EVALUATION ON TEST SURFACES AT NANTES

CONTENTS

	Page
1. NOTATION	1
2. INTRODUCTION	1
3. TEST DATA	2
4. STATISTICAL ANALYSIS	3
5. REFERENCES	4
FIGURES 1 and 2	5