
**Hydrometry — Open channel flow
measurement using triangular profile
weirs**

*Hydrométrie — Mesure de débit des liquides dans les canaux
découverts au moyen de déversoirs à profil triangulaire*



Reference number
ISO 4360:2008(E)

© ISO 2008

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

.....



COPYRIGHT PROTECTED DOCUMENT

© ISO 2008

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword.....	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols	1
5 Principle	2
6 Installation	2
6.1 General	2
6.2 Selection of site	2
6.3 Installation conditions	3
7 Maintenance	6
8 Measurement of head(s)	6
8.1 General	6
8.2 Location of head measurement(s)	6
8.3 Gauge wells	6
8.4 Zero setting	9
9 Discharge characteristics	9
9.1 Equations of discharge	9
9.2 Coefficients	10
9.3 Limitations	10
10 Uncertainties of flow measurement	12
10.1 General	12
10.2 Combining measurement uncertainties	13
10.3 Uncertainty of discharge coefficient $u(C_d)$ for the triangular profile weir	14
10.4 Uncertainty budget	14
11 Example	15
11.1 General	15
11.2 Characteristics — Gauging structure	15
11.3 Characteristics — Gauged head instrumentation	15
11.4 Discharge coefficient	16
11.5 Discharge calculation	16
11.6 Uncertainty statement	16
Annex A (informative) Introduction to measurement uncertainty	18
Annex B (informative) Sample measurement performance for use in hydrometric worked examples	26
Bibliography	28