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Irish Standard
I.S. EN ISO 4375:2014

Hydrometry - Cableway systems for stream gauging (ISO 4375:2014)

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NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 4375

November 2014

ICS 17.120.20

Supersedes EN ISO 4375:2004

English Version

Hydrometry - Cableway systems for stream gauging (ISO 4375:2014)

Hydrométrie - Systèmes de suspension par câbles aériens pour le jaugeage en rivière (ISO 4375:2014)

Hydrometrische Messungen - Seilkrananlagen für Messungen in Fließgewässern (ISO 4375:2014)

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Contents

Page

Foreword.....3

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Foreword

This document (EN ISO 4375:2014) has been prepared by Technical Committee ISO/TC 113 “Hydrometry” in collaboration with Technical Committee CEN/TC 318 “Hydrometry” the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2015, and conflicting national standards shall be withdrawn at the latest by May 2015.

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INTERNATIONAL STANDARD

ISO 4375

Third edition
2014-11-15

Hydrometry — Cableway systems for stream gauging

Hydrométrie — Systèmes de suspension par câbles aériens pour le jaugeage en rivière

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Contents

Page

Foreword ..... **iv**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **1**

4 General description of a cableway system **1**
- 4.1 Elements of a cableway system 1
- 4.2 Cableway supports 3
- 4.3 Main track or main cable 3
- 4.4 Anchorage 3
- 4.5 Tow cable for a bankside system 3
- 4.6 Suspension cable 3
- 4.7 Instrument carriage for a bankside system 4
- 4.8 Personnel carriage 4
- 4.9 Winch arrangements for a bankside system 4
- 4.10 Winch arrangements for a personnel carriage 4
- 4.11 Lightning protection 4

5 Functional requirements of cableway components **4**
- 5.1 Safety factors 4
- 5.2 Cableway supports 5
- 5.3 Selection of main cable or track 6
- 5.4 Anchorage 6
- 5.5 Backstays 6
- 5.6 Tow cable 6
- 5.7 Carriages 6
- 5.8 Winches 7

6 Maintenance, examination and testing **9**
- 6.1 General examination 9
- 6.2 Routine inspection 9
- 6.3 Static testing 9
- 6.4 Lubrication 10
- 6.5 Checking the sag 10

Annex A (informative) **Cableway characteristics** **11**

Annex B (informative) **Limiting main cable tension in bankside cableways** **22**

Bibliography **24**

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Foreword

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The committee responsible for this document is ISO/TC 113, *Hydrometric determinations*, Subcommittee SC 5, *Instruments, equipment and data management*.

This third edition cancels and replaces the second edition (ISO 4375:2000), which has been technically revised.

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Hydrometry — Cableway systems for stream gauging

1 Scope

This International Standard defines the requirements for equipment, anchorage, supports and accessories for cableway systems for use in stream gauging. Systems which are operated either entirely from the river bank or from a suspended personnel carriage (also called a "cable car") are discussed. This International Standard is only applicable to the cableway systems to be used for hydrometric measurements. Should the cableway installation be required to be certified as lifting equipment, other standards or regulations may apply. This International Standard does not concern methods for making a discharge measurement which are described in ISO 748.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 772, *Hydrometry — Vocabulary and symbols*

ISO 80000-4, *Quantities and units — Part 4: Mechanics*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 772, ISO 80000-4 and the following apply.

3.1
cable
wire rope of simple or complex structure or wire cord, fixed or moving in a cableway system

4 General description of a cableway system

4.1 Elements of a cableway system

A cableway system can be designed to be operated from the river bank (see Figures 1 and 2) or be designed to be operated from a suspended personnel carriage (see Figure 3). The general arrangement of the following elements are common to both systems:

a) towers or cableway supports;

b) track or main cable;

c) anchorage;

d) backstays;

e) suspension cable.

The main differences are:

— the carriage of a bankside system requires a tow cable;

— a bankside system requires a more complicated winch arrangement;

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