

Measurement of liquid flow in open channels —

Part 3: Stream flow measurement —

Part 3H: Electromagnetic method using a full-channel-width coil

UDC 532.57.082.74:532.543

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Industrial-process Measurement and Control Standards Policy Committee (PCL/-) to Technical Committee PCL/3, upon which the following bodies were represented:

- Clyde River Purification Board
- Department of the Environment
- Institute of Measurement and Control
- Institution of Water and Environmental Management
- National Rivers Authority
- Water Services Association of England and Wales
- Welsh Office

The following bodies were also represented in the drafting of the standard, through subcommittees and panels:

- British Water Industries Group
- Water Research Centre

This British Standard, having been prepared under the direction of the Industrial-process Measurement and Control Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 15 January 1993

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The following BSI references relate to the work on this standard:
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National foreword

This Part of BS 3680 has been prepared under the direction of the Industrial-process Measurement and Control Standards Policy Committee. It is identical with ISO 9213:1992 *Measurement of total discharge in open channels — Electromagnetic method using a full-channel-width coil*, published by the International Organization for Standardization (ISO).

This standard is one of a series of Parts of BS 3680-3 on stream flow measurement. The other Parts are as follows.

- *Part 3A: Velocity-area methods;*
- *Part 3B: Guide for establishment and operation of a gauging station;*
- *Part 3C: Methods for determination of the stage-discharge relation;*
- *Part 3D: Moving-boat method;*
- *Part 3E: Measurement of discharge by the ultrasonic (acoustic) method;*
- *Part 3F: Collection and processing of data for determination of errors in measurement;*
- *Part 3G: General guidelines for the selection of methods;*
- *Part 3J: Guide to the measurement of discharge using three verticals;*
- *Part 3M: Guide to the methods of measuring high discharges in rivers.*

Cross-references

International standard	Corresponding British Standard
	BS 3680 <i>Measurement of liquid flow in open channels</i>
ISO 748:1979	Part 3A:1980 <i>Velocity-area methods</i> (Identical)
ISO 1100-2:1982	Part 3C:1983 <i>Methods for determination of the stage-discharge relation</i> (Identical)
ISO 7066-1:1989	BS 7118 <i>Measurement of fluid flow: assessment of uncertainty in the calibration and use of flow measurement devices</i> Part 1:1990 <i>Linear calibration relationships</i> (Identical)
	BS 2011 <i>Environmental testing</i>
IEC 68-1:1988	Part 1.1:1989 <i>General and guidance</i> (Identical)
IEC 68-2-28:1990	Part 2.2C & D:1990 <i>Tests C & D. Guidance for damp heat tests</i> (Identical)
IEC 801-3:1984	BS 6667 <i>Electromagnetic compatibility for industrial-process measurement and control equipment</i> Part 3:1985 <i>Method of evaluating susceptibility to radiated electromagnetic energy</i> (Identical)

The technical committee has reviewed the provisions of ISO 772:1988 and IEC 801-4:1988 to which reference is made in the text, and has decided that they are acceptable for use in conjunction with this standard. The reference in the text to ISO 5168 is to a revised edition which is in preparation. ISO 5168:1978 is identical with BS 5844:1980 and it envisaged that when the revised edition of ISO 5168 is published it will be implemented as a revised edition of BS 5844.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 12, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

