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In the event of any doubts arising as to the contents, the original JIS is to be the final authority.

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Contents

Page

Introduction			
1	Scope		
2	Normative reference 1		
3	Terms and definitions ······2		
4	Symbols		
5	Theory and basic formulae		
6 6.1 6.2 6.3 6.4	Construction and principle of operation6General6Sensor7Transmitter8Flowmeter/Transmitter output11		
7 7.1	Equipment marki Recommended day	ng ·····11 ta ·····11	
8 8.1 8.2 8.3	Installation design and practice12Sensor12Transmitter location19Operational considerations19		
9 9.1 9.2	Flowmeter calibration, validation, and verification ······20 Flowmeter calibration validation ·····20 Flowmeter verification (in-situ electronic verification) ·····20		
10 10.1 10.2	Evaluation of flowmeter performance ······21 General ·····21 Applications within the scope of other standards ·····21		
11	Uncertainty analy	zsis ·····21	
Annex	A (informative)	Materials for construction of sensors23	
Annex	B (informative)	Practical considerations for measuring system with AC and DC excitation	
Annex	c C (informative)	Cathodic protection ······29	
Annex	D (informative)	Conversion of nominal diameters from metric to US units ······31	
Annex	x E (informative)	Manufacturers' accuracy specifications	
Biblio	graphy		

B 7554 : 2024

Annex JA (informative)	Comparison table between JIS and corresponding
	International Standard

Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry based on the provision of Article 14, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act in response to a proposal for revision of Japanese Industrial Standard with a draft being attached, submitted by Japanese Standards Association (JSA), an accredited standards development organization. This edition replaces the previous edition (**JIS B 7554** : 1997), which has been technically revised.

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Electromagnetic flowmeters

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 20456** : 2017, Edition 1, by incorporating parts of the said **ISO** that correspond to **JIS** without any modifications of the technical contents while adding requirements that are unique to **JIS**, including the necessary length of straight pipe, method for installation of bypass piping, and functional and constructional requirements of transmitter.

The vertical lines on both sides and dotted underlines indicate additions to the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard applies to industrial electromagnetic flowmeters used for the measurement of flowrate of a conductive liquid in a closed conduit running full. It covers flowmeter types utilizing both alternating current (AC) and pulsed direct current (DC) circuits to drive the field coils and meters running from a mains power supply and those operating from batteries or other sources of power.

This Standard is not applicable to insertion-type flowmeters or electromagnetic flowmeters designed to work in open channels or pipes running partially full, nor does it apply to the measurement of magnetically permeable slurries or liquid metal applications.

This Standard does not specify safety requirements in relation to hazardous environmental usage of the flowmeter.

NOTE The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 20456 : 2017 Measurement of fluid flow in closed conduits — Guidance for the use of electromagnetic flowmeters for conductive liquids (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

2 Normative reference

Part or all of the provisions of the following standard, through reference in this text, constitute provisions of this Standard. The most recent edition of the standard (including amendments) indicated below shall be applied.

JIS Z 8103 Glossary of terms used in measurement