

TABLE OF CONTENTS

PRECAUTIONS	
1 General Precautions	
2 Safety Precautions	
3 Application Precautions	
4 Noise Prevention	
SECTION 1	
Introduction	
1-1 Features	
1-2 Front of the Meter	
1-3 Rear of the Meter	
1-4 Modes	
1-5 Communications Function	
SECTION 2	
Setup	
2-1 Mounting	
2-2 Input Block	
2-2-1 Terminal Arrangement	
2-2-2 Wiring Precautions	
2-2-3 Wiring	
2-3 Output Board	
2-3-1 Terminal Arrangement	
2-3-2 Relay Output Board	
2-3-3 Transistor and Combination Output Board	
2-3-4 Linear Output Board	
2-3-5 BCD Output Board	
SECTION 3	
Operating Modes	
3-1 Rotational/Circumferential Speed: f1	
3-2 Absolute Ratio: f2	
3-3 Error Ratio: f3	
3-4 Rotational Difference: f4	
3-5 Flow Rate Ratio: f5	
3-6 Passing Time: f6	
3-7 Pulse Counting: f7	
SECTION 4	
Parameter Setting	
4-1 Overview	
4-1-1 Heading Symbols	
4-1-2 Setting Procedures	
4-2 Setting Mode	
4-2-1 Selecting Setting Mode	
4-2-2 Menu Overview	
4-2-3 Setting Value Menu (sUset)	
Bank No. of Set Value	
HH Set Value	
H Set Value	
L Set Value	
LL Set Value	

TABLE OF CONTENTS

4-2-4	Prescaling Menu (pscl)
	Bank No. of Prescale
	Prescaling Value X (Mantissa) of Input A
	Prescaling Value Y (Exponent) of Input A
	Prescaling Value X (Mantissa) of Input B
	Prescaling Value Y (Exponent) of Input B
	Decimal Point Position
4-2-5	Setup Menu (setup)
	Operating Mode
	Sensor Type
	Auto Zero Time of Input A X (Mantissa)
	Auto Zero Time of Input A Y (Exponent)
	Auto Zero Time of Input B X (Mantissa)
	Auto Zero Time of Input B Y (Exponent)
	Time Unit
	Communications Unit Number
	Baud Rate
	Word Length
	Stop Bits
	Parity Bits
4-2-6	Option Menu (opt)
	Process Time for Averaging Measured Value
	Startup Compensation Time
	Power Failure Memory
	Hysteresis
	Comparative Output Pattern
	Upper Limit (H) of Linear Output Range
	Lower Limit (L) of Linear Output Range
	Remote/Local Programming
4-3	Protect Mode
4-3-1	Selecting Protect Mode
4-3-2	Menu Overview
4-3-3	Protect Menu (prot)
	All Key Protect
	Setting Value Change Prohibit
	Counting Value Reset Prohibit
	Maximum/Minimum Value Clear Prohibit
	Security
SECTION 5	
Operations in RUN Mode	
5-1	Displaying and Changing Setting Values
5-1-1	Displaying Setting Values
5-1-2	Changing Setting Values
5-2	Displaying and Resetting of Maximum and Minimum Values (Operating Modes F1 to F6)
5-2-1	Displaying Maximum and Minimum Values
5-2-2	Resetting Maximum and Minimum Values
5-3	External Input Signals
5-3-1	Bank Selection
5-3-2	RESET (Operating Modes F1 to F6)
5-3-3	RESET (Operating Mode F7)
5-3-4	HOLD (Operating Modes F1 to F6)
5-3-5	HOLD (Operating Mode F7)

TABLE OF CONTENTS

SECTION 6

Useful Functions

- 6-1 Teaching Function
- 6-1-1 Set Value
- 6-1-2 Prescaling Value
- 6-1-3 Linear Output Range
- 6-2 Output Test
- 6-3 Maintenance Mode
- 6-3-1 Maintenance Mode
- 6-3-2 Initialization

SECTION 7

BCD Output

- 7-1 Connectors
- 7-2 Timing Charts

SECTION 8

Troubleshooting

- 8-1 Items to Be Checked First
- 8-2 Display
- 8-2-1 Flashing
- 8-2-2 Error Message

Appendices

- A Specifications
- B Estimated Frequency Calculation
- C List of Settings
- D Available Models
- E Available Parameters
- F Setting Examples

Index

Revision History

