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masibus 1008S Flow Indicator Totaliser



1008S Flow Indicator Totaliser

Input Type	Range
to 20 mA	to 30000
to 20 mA	
to 5 V	
to 5 V	
*Pulse Input	
Integrated/ Batch Total	to 999999

SPECIFICATIONS

- **NUMBER OF INPUTS** 1 with Optional 2 & 3
- **ACCURACY** $\pm 0.25\%$ of full scale ± 1 Count , **0.45 % – for Integrated/ Batch Total
- **BURN OUT DETECTION** Available for 1 to 5VDC, 4 to 20 mA, 0 to 10 KHz.
- **INPUT RESISTANCE**
 - 250 Ohms Internal for current Input
 - 320K Ohms for Voltage Input
- **ALLOWABLE SIGNAL SOURCE RESISTANCE**
 - **DC input voltage:** 1K Ω or less. Effect from allowable signal source
 - **Resistance:** 0.031 % / 100 Ω or less
- **ALLOWABLE INPUT VOLTAGE**
 - **DC voltage:** ± 20 V DC
- **NOISE REJECTION RATIO**
 - **Common Mode:** > 100db
 - **Normal mode:** > 40db
- **RESPONSE TIME**
 - **Input to relay o/p:** < 1 second.
 - **Input to Analog o/p:** < 1 second or less, 63 % (10 – 90%) (Time required for o/p to reach 63% of the maximum excursion when PV changes from 10% to 90%)

- **RESOLUTION** 16 bit POLARITY
- **PROTECTION** Not provided
- **MEMORY BACKUP** EEPROM

Loop Power Supply Specification

- **LOOP POWER SUPPLY** 24VDC \pm 5% @ 50mA

Retransmission Output

NUMBER OF OUTPUTS	1
OUTPUT SIGNALS	to 20 mA DC
LOAD RESISTANCE	500 Ω or less
OUTPUT ACCURACY	\pm 0.25% of full scale +1 count
RESOLUTION	bits (5uA)

Contact Input (Digital input)

NO OF INPUTS	4
USAGE	<p>Input 1 : Stop Batch Input 2 : Integration total zero (Therefore Batch total and roll count will be zero)</p> <p>Input 3 : Start Batch</p> <p>Input 4 : Batch total zero</p>
INPUT TYPE	Non- voltage contact input or transistor open collector input

INPUT CONTACT CAPACITY	12VDC,10mA or more (for non – voltage contact input)
ON/ OFF DETERMINATION	<ul style="list-style-type: none"> • For non-voltage contact input ON = contact resistance of 1KΩ or less, OFF = contact resistance of 20KΩ or more • For transistor contact input ON = 2V or less OFF = leak current of 100μA or less
MINIMUM RETENTION TIME FOR STATUS DETECTION	About 1 Second

Contact Outputs

- **NUMBER OF OUTPUTS** 4 (2 Flow alarm relays, 2 Batch relays)
- **USAGE** Flow alarm / Batch relay
- **RELAY CONTACT TERMINAL** 3(Common, NO, NC)
- **RELAY CONTACT RATING** 250VAC/5Amps

Communication Specification

PROTOCOL	Modbus RTU serial
STANDARD	EIA RS-485

MAX. COMMUNICATION DISTANCE	mtrs. (For 9600 bps RS 485)
COMMUNICATION METHOD	wire half duplex (RS 485)
DATA FRAME	N, 8, 1
COMMUNICATION RATE	9600, 19200 bps
MAX. CONNECTABLE CONTROLLERS/ INDICATOR	32
ADDRESS RANGE	to 99

Display Unit Specification

PROCESS VALUE DISPLAY	0.56" 5 digit 7- segment red display
INTEGRATED TOTAL DISPLAY	0.40" 8 digit 7- segment red display
PARAMETER DISPLAY	Same integrated total display
STATUS INDICATING LAMP	Red LED's

Power Supply Specification

- **POWER SUPPLY** 110 to 230 VAC, 50Hz ; 24VDC(optional)

- **POWER CONSUMPTION** <10Va

- **WITHSTANDING VOLTAGE**

- Between primary terminal and secondary terminal : 1500VAC(For 1 min)
- Between primary terminal and ground terminal : 500VDC(for 1 min)
- Between ground terminal and Secondary terminal: 500V AC (for 1 minute).
- (Primary terminal: Power supply, relay output) (Secondary terminal: Analog input/output signal terminals, contact input terminal)

Signal Isolation Specifications

ISOLATION RESISTANCE	Between power supply terminal and ground terminal: 500 VDC, 50MΩ
MEASURED INPUT TERMINAL	Isolated from other input/output terminals. Not isolated from 24Vdc supply (Transmitter power supply) and internal circuit.
24V DC SUPPLY FOR TRANSMITTER	Not isolated from the measured input terminal & internal circuit, isolated from other input/output terminals.
RETRANSMISSION OUTPUT TERMINAL	Isolated from other input/output terminals and internal circuit.
CONTACT INPUT TERMINAL	Isolated from other input/output terminals and internal circuit.

RELAY CONTACT O/P TERMINAL (DIGITAL INPUT)	Isolated from other input /output terminals and internal circuit.
RS-485 COMMUNICATION TERMINAL	Isolated from other input/output terminals and internal circuit.
POWER SUPPLY TERMINAL	Isolated from other input / output terminals and internal circuit.
GROUND TERMINAL	Isolated from other input/ output terminals and internal circuit.

Environmental Specification

- **OPERATING TEMPERATURE** 0 to 55°C
- **STORAGE TEMPERATURE** 0 to 70°C
- **HUMIDITY** 30 to 90% RH (Noncondensing) **WARM UP TIME** >10 Minute
- **EFFECT OF AMBIENT TEMPERATURE**
 - **For Voltage Input:** 0.005% of FS/ °C or less
 - **For analog output:** 0.010% of FS/ °C or less

Alarm Specification

ALARM TYPES	Flow high limit, Flow low limit
BATCHING ALARM	Pre warn and set point

SETTING RANGES FOR PROCESS VALUE ALARMS	Flow (PV) Alarms: Min = Zero of individual I/P type Max = Span of individual I/P type
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Display Specification

PV DISPLAY	5 digit red 7 segment display for flow rate
INTEGRATED TOTAL	8 digit red 7 segment display for integrated total
PARAMETER DISPLAY	Same 8 digit red 7 segment display integrated total
STATUS DISPLAY	Red LEDs (for alarm & Batch)

Other Specification

SQUARE ROOT EXTRACTION	Applicable
DIGITAL FILTER	Applicable
TIME BASE UNIT	Second, minute, hour, day
CONVERSION FACTOR	0.00 to 99.99




FIVE POINT LINEARIZATION	Applicable
PULSE OUT PUT	Maximum pulse: 20 pulses/Sec. Excitation Voltage: <24Vdc with maximum 10 mAdc
LOW FLOW CUT OFF	Applicable


MOUNTING DETAILS

- Structure: Front fascia IP54 complied(not certified), Enclosure GP (IP20)
- Body construction: Polycarbonate plastic.
- Case color: Dark grey
- Weight: 0.45Kg
- Instrument Dimension: 96 W* 96H*125D max behind panel with terminal (all in mm)
- Mounting Method: Panel mounting
- Panel cut-out: 92W* 92H (all in mm)
- Wiring: 2.5sq.mm
- Standard Accessories: 2 mounting clamp

FRONT PANEL DESCRIPTION

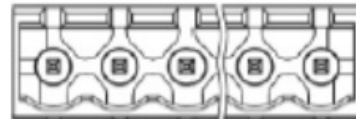
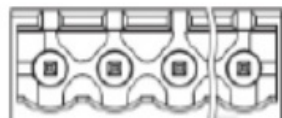
Name of Part	Function
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 <p>SET OR SHIFT</p>	<ol style="list-style-type: none"> 1. It will allow user to enter in EDIT mode, when instrument is in RUN mode. 2. It will scroll menu and submenu When it is enabled. 3. It will save edited data.
 <p>START OR SHIFT</p>	<ol style="list-style-type: none"> 1. It will enter into the submenu, when main menu is enabled and shows submenu's value. 2. It will select the digit to modify, when value is edited. 3. It will start batch, if pressed, when IT & BT are being displayed
 <p>STOP OR INCREMENT</p>	<ol style="list-style-type: none"> 1. It will increment value of digit selected or constant selected. 2. It will stop batch, if pressed, when BT/IT are being displayed. 3. For Pause batch press stop key for 1 second. 4. If we press stop key for 3 second then batch becomes zero.

 <p>ESCAPE</p>	<p>1. It will escape to previous status, with reference to its current status.</p> <p>Sequence of status:</p> <p>IT MENU SUB-MENU</p> <p>Parameter's Value</p> <p>Escape sequence</p> <p>When Esc key is pressed in Menu, the instrument will come in RUN Mode. If user wants to go in EDIT mode, he will have to enter the correct password again.</p> <p>2. When Esc key is pressed in RUN</p> <p>Mode, it will directly enter in to the set point menu. This function is only applicable when type of instrument is totaliser.</p>
<p>RL1, RL2 RL3,RL4</p>	<p>When Respective Relay LED Lits (In Red) OR When Channel is OPEN(Channel no. is corresponding to Relay no.)</p>
<p>Rx/Tx</p>	<p>When Communication on, two LEDs (In Red) blink.</p>

BACK PLATE CONNECTION DETAIL

Rear Panel Diagram of 1008S Standard

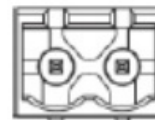
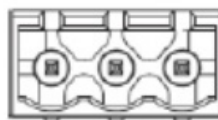


23	24	25	26
RxTx+	RxTx-	OUT+	OUT-
RS-485 Serial		4-20 mA	

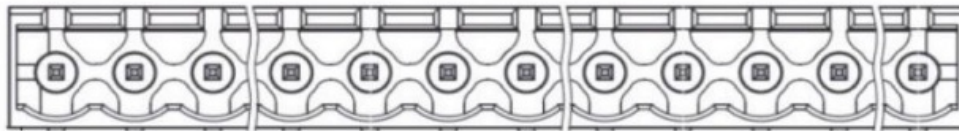
27	28	29	30	31
I/P -Ve	I/P +Ve	PULSE IP-	PULSE IP+	+24V DC
I/P 4-20mA		I/P PULSE		



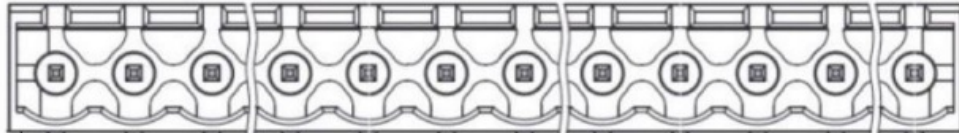
11	12	13	14	15	16	17	18	19	20	21	22
C	NO	NC	C	NO	NC	C	NO	NC	C	NO	NC
RELAY1			RELAY2			RELAY3			RELAY4		
MAINS 85-265 VAC			DIGITAL I/P					POUT			
Line	Neu.	E	IN1	IN2	IN3	IN4	IN5	+		-	
1	2	3	4	5	6	7	8	9		10	



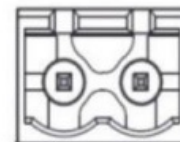
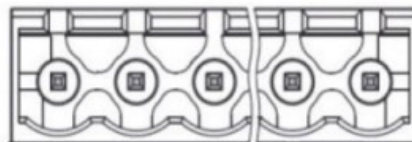
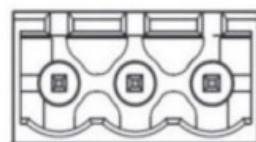
Rear Panel Diagram Of 1008S With Mass Flow



23	24	25	26	27	28	29	30	31	32	33	34
RxTx+	RxTx-	OUT+	OUT-	+C	+Ve3	+Ve2	-Ve	+Ve1	-	+	+24V DC
RS-485 Serial		CURRENT O/P 4 - 20 mA		ANALOG INPUT mA/V				Pulse I/P		(50 mA)	



11	12	13	14	15	16	17	18	19	20	21	22
C	NO	NC	C	NO	NC	C	NO	NC	C	NO	NC
RELAY1			RELAY2			RELAY3			RELAY4		
MAINS 85-265 VAC			DIGITAL INPUTS						Pulse O/P		
Line	Neu.	E	IN1	IN2	IN3	IN4	IN5		+	-	
1	2	3	4	5	6	7	8		9	10	



Terminal Details of 1008S Standard

1	Line	MAINS 90-255 VAC	11	COM 1	Low Alarm Relay	23	RxTx+	RS 485 Serial
2	Neutral		12	NO 1		24	RxTx-	
3	Earth		13	NC 1		25	OUT+	CURRENT O/P : 4-20 mA
4	DIN1 +Ve	Digital Inputs	14	COM 2	High Alarm Relay	26	OUT-	
5	DIN2 +Ve		15	NO 2		27	I/P -Ve	I/P 4-20 mA
6	DIN3 +Ve		16	NC 2		28	I/P +Ve	
7	DIN4 +Ve		17	COM 3	WP	29	Pulse I/P-	I/P PULSE
8	DIN -Ve	Pulse o/p	18	NO 3		30	Pulse I/P+	
9	POUT +Ve		19	NC 3		31	+24V DC (50mA)	
10	POUT -Ve		20	COM 4	EP Relay			
			21	NO 4				
			22	NC 4				

Terminal Details of 1008S with Mass Flow

1	Line	MAINS 85- 265 VAC	11	COM 1	Low Alarm Relay	23	RxTx+	RS 485 Serial
2	Neutra l		12	NO 1		24	RxTx-	
3	Earth		13	NC 1		25	OUT+	
4	DIN1 +Ve	Digital Inputs	14	COM 2	High Alarm Relay	26	OUT-	CURREN T O/P : 4-20 mA
5	DIN2 +Ve		15	NO 2		27	C+ RTD	
6	DIN3 +Ve		16	NC 2		28	RTD / I/P3+ Ve	ANALOG I/P mA/V/RT D
7	DIN4 +Ve		17	COM 3	WP	29	I/P2 +Ve	
8	DIN - Ve		18	NO 3		30	-Ve	
9	POUT +Ve	Pulse o/p	19	NC 3		31	I/P1 +Ve	
10	POUT -Ve		20	COM 4	EP Relay	32	PIN - Ve	Pulse i/p
			21	NO 4		33	PIN +Ve	
			22	NC 4		34	+24V DC (50mA)	

Batch total:

This is an eight digit totalized value, displayed as Batch total. As per the selected time base, Zero and Full-scale settings, this total is updated continuously, proportional to input. When New Batch Starts or Integration total is reset this value also gets initialized to 0.

Integration total:

This is an eight digit totalized value, displayed as integrated total. As per the selected time base, Zero and Full-scale settings, this total is updated continuously, proportional to input.

Relay-mode:

In 'Relay-mode' (relay nod), if set to 'normal' mode then alarm relays and LEDs will work according to alarm values.

i.e. Relays on, LEDs on

Relays off, LEDs off. But if set to 'Failsafe' mode then the alarm relays and LEDs will operate reversibly.

i.e. Relays on, LEDs off Relays off, LEDs on

Cut Off(Low Flow Cut Off):

Cut off could be set to 0000 to 0100. Cut off will display the % value.

Cutoff value = Cutoff parameter (in %)*Full scale value

If full scale value is 10000 and cut off is 5% Then cut off value will be calculated as
 $= (5/100) * 10000 = 500.$

So, if the displayed flow rate (displayed at upper window) is less then 500, it will not be added to integration.

For operation manual please visit www.masibus.com

Specifications are subject to change without notice due to continuous improvements.

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FAQs


Q: What are the alarm types supported by by the product?

A: The alarm types supported are Flow high limit and Flow low limit.

Q: What is the power supply specification of the product?

A: The power supply supports 110 to 230 VAC, 50Hz and has a power consumption of...

Documents / Resources

	<p>masibus 1008S Flow Indicator Totaliser [pdf] User Guide</p> <p>1008S Flow Indicator Totaliser, 1008S, Flow Indicator Totaliser, Indicator Totaliser, Totaliser</p>
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References

- [User Manual](#)

💎 1008S, 1008S Flow Indicator Totaliser, Flow Indicator Totaliser, Indicator Totaliser, masibus, masibus Totaliser

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