



1006H

Flow Indicator Counter Totalizer



Masibus' model 1006H is compact panel mount flow rate totalizer having 6-digit single display group for flow rate and batch total. Measured parameters are displayed with high accuracy and floating decimal point position. If auxiliary power fail, the displayed batch total, integrated total and all programming parameters are stored in non-volatile memory, and are automatically recovered when auxiliary power is restored.

Model-1006H has optional two relays to configure simple batching operations with high/low, Pre warn or End of process set points. alarm/relay and data communication status are indicated on separate LEDs.

Model 1006H FIT is equipped with additional features like transmitter power supply to excite field transmitter, Isolated retransmission output for recorder and It has optional serial communication on RS-485 over MODBUS RTU protocol for interfacing with SCADA/PLC, PC based data acquisition and reporting system.

The programming, calibration and operation of the instrument are done by four simple keys. The instrument is provided with five-point calibration. The unit can be calibrated in installed condition itself by front panel keys at predefined points.

Operation of the instrument is menu driven. It has password protection facility for protecting programmed data. Integrated total, batch total and roll count are cleared by special password. A selectable square root extractor function enables the output from a differential flow transmitter to be displayed in linear units.

Features

- Single input: Current, voltage, pulse input or digital input
- Square root extractor
- 6 Digit flow rate / integrated total with rollover count
- Programmable K factor for frequency input
- Programmable low/zero cutoff facility
- 6-digit totalizer with password protected resetting
- Programmable time base day/hr/min./sec.
- Options:
 - 2 Configurable relays for flow/batch
 - Retransmission output (Isolated)
 - RS-485 serial communication (Isolated)

Applications

- Monitoring and controlling continuous and batch flow processes like:
 - Fluid production
 - Printing
 - Packaging
 - Length measurement
 - Food packaging
- Compatible for turbine, PD & magnetic pickup flow elements

TECHNICAL SPECIFICATIONS

Analog Input (Optional)		Output	
No. of Channels	1	Relay (Optional)	
Input Type	0/4-20mA, 0/1-5V DC, Pulse Input*	No. of Relays	2 (Flow alarm relays/ batch relays)
Resolution ADC	16 bit	Contact Type & Rating	C-NO Single change over, 250VAC@5A
Sampling Speed / Time	100 ms	Retransmission (Optional)	
Input Impedance	250 Ohms internal for current input 320K Ohms for voltage input	Retransmission	Isolated 4-20 mA DC max. 500 Ohms
CMRR	> 100dB	Retransmission Accuracy	+/-0.25% of FS
NMRR	> 40dB	Serial Communication (Isolated RS485) (Optional)	
Pulse-Frequency I/P	0-10KHz	Baud Rate	9600 / 19200 bps
Measurement Accuracy	± 0.25% of full scale ± 1 count	Protocol	MODBUS RTU serial
Temp. co	100 ppm	Data Frame	N, 8, 1
Max Input voltage	DC voltage: +/-20VDC	Transmitter Power Supply	
* Max. Pulse level<=24V, Min. pulse level > 5.0V		Power Supply	
Digital Input		Power Supply	110-230V AC (Standard) 24 VDC (Optional)
No. of Channel	1	Power Consumption	10 VA Max.
Input type	Non-voltage contact input or transistor open collector input	Isolation (Withstanding voltage)	
Input Contact Capacity	24VDC @10mA (for non - voltage contact input)	Between primary terminals* and secondary terminals**: At least 1500 V AC for 1 minute	
Input Function	Start batch /stop batch	Between secondary terminals**: At least 500 V AC for 1 minute	
Display & Keys		* Primary terminals indicate power terminals and relay output terminals.	
		** Secondary terminals indicate analog input/output signal terminals,contact input terminal.	
		Physical	
Flow Rate / Integrated Total Parameter Display	0.56" 6 digit, 7 segment RED LED	Mounting Type	Panel
Status display	Red LEDs for alarm / relay, data communication	Bezel Size (in mm)	48 (H) x 96(W) x 110 (D)
Input Range (Rate)	Range programmable 0-30000	Cut out dimension (in mm)	44 (H) x 92(W)
Integrated / Batch Total Range	0-999999	Weight	300 gms
Decimal Point	Adjustable upto 3 digits	IP Class	IP20
Keypad	4 Keys - stop, start, enter & escape	Enclosure Type	Polycarbonate plastic
Special Features		Electrical Connection	2.5mm ² / Screwed
Batch / Integrated Total Reset	Front key (Password protected)	Std. Accessories	Mounting clamps – 2 nos.
Time Base for Totalizer	Programmable (Sec./min./hr/day)	Environmental	
K Factor Function	Yes (With frequency I/P)	Operating Temperature	0 to 55 °C
Square Root Extraction	Yes	Storage Temperature	0 to 70 °C
Memory / Data Storage	NVRAM/EEPROM. Data will not be lost when power off, can hold for 10 years	Operating / Relative Humidity	30-90% RH (Non-condensing)
		Warm Up Time	10 min Max.

Ordering Code

Model	Input Type#		Aux. Power Supply		Communication		Relay		Retransmission O/P		Mounting	
1006H	X		XX		X		X		X		XX	
	C	4-20 mA	A1	110-230V AC	N	None	N	None	N	None	P0	Panel
	D	0-20 mA	A3	24 VDC	2	RS485	2	2 Relays	Y	Yes		
	E	1-5 VDC										
	F	0-5 VDC										
	G	0-10 VDC										
	N	Pulse input (NPN)										
	P	Pulse input (PNP)										
	S	Special▲										

X – Specify from table
Input type is factory set
▲ Consult factory

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All specifications are subject to change without notice due to continuous improvements.

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