



# 1006H

Flow Indicator Counter Totalizer

Masibus' Model 1006H is compact panels 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 RS485 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
  - O Food Packaging
- Compatible for Turbine, PD & Magnetic pickup flow elements

## **Technical Specifications**

	n a chuir an				
Analog Input (Option	nal)				
No. of channels	1				
Input Type	0/4-20mA, 0/1-5V DC, Pulse Input*				
Resolution ADC	16 bit				
Sampling Speed / Time	100 ms				
Leaved Leave a dealers	250 Ohms internal for Current Input				
Input Impedance	320K Ohms for Voltage Input				
CMRR	> 100dB				
NMRR	> 40dB				
Pulse-Frequency I/P	0-10KHz				
Measurement accuracy	± 0.25% of full scale ± 1 Count				
Temp co	100 ppm				
Max Input voltage	DC voltage: +/-20VDC				
* Max. Pulse level<=24V, Min. pulse level > 5.0V					

#### Digital Input

No. of Channel	1
Input type	Non-voltage contact input or transistor open collector input
Input Contact Capacity	24VDC @10mA (for non – voltage contact input)
Input Function	Start Batch /Stop Batch

Display & Keys	
Flow rate / Integrated Total Parameter Display	0.56" 6 Digit, 7 Segment RED LED
Status display	Red LEDs for alarm / Relay, Data communication
Input Range (rate)	Range programmable 0-30000
Integrated / Batch Total Range	0-999999
Decimal point	Adjustable upto 3 digits
Keypad	4 keys - Stop, Start, Enter & Escape

Special Features	
Batch / Integrated Total Reset	Front Key (password protected)
Time Base for Totalizer	Programmable (Sec/Min/Hr/Day)
K Factor Function	Yes (With Frequency I/P)
Square root extraction	Yes
Memory/Data storage	NVRAM/EEPROM. Data will not be lost when power off, can hold for 10 years

Relay (Optional)						
No. of Relays Contact Type &	2 (Flow alarm relays/ Batch relays)					
rating	C-NO Single change over, 250VAC@5A					
Retransmission (Op	tional)					
Retransmission	Isolated 4-20 mA DC Max. 500 Ohms					
Retransmission accuracy	+/-0.25% of FS					
Serial Communicati	on (Isolated RS485) (Optional)					
Baud Rate	9600 / 19200 bps					
Protocol	MODBUS RTU Serial					
Data Frame	N,8,1					
Transmitter Power Supply	24VDC ±5% @ 50 mA					
Power Supply						
Power Supply	110-230V AC (standard) 24 VDC (optional)					
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Operating / Relative Humidity	30-90% RH (non-condensing)

10 min Max.

Ordering code												
Model		Input Type <sup>#</sup>	Aux. Power Supply		Communication		Relay		Retransmission O/P		Mounting	
1006H	Х		XX		Х		Х		Х		XX	
	С	4-20 mA	A1	110-230V AC	Ν	None	Ν	None	Ν	None	P0	Panel
	D	0-20 mA	A3	24 VDC	2	RS485	2	2 Relays	Υ	Yes		
	Е	1-5 VDC										
	F	0-5 VDC	X – Specify from table # Input type is factory set									
	G	0-10 VDC										
	Ν	Pulse Input (NPN)	▲ Consult factory									
	Р	Pulse Input (PNP)										
	S	Special <sup>≜</sup>										

Warm up time

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All specifications are subject to change without notice due to continuous improvements. Doc. Ref. 1006H/R2F/1117