Flow Indicator Totaliser (Model 1006)



Masibus' Model 1006 is a panel mounted rate totalizer with separate rate and total displays. When connected with a 4/20mA flow transmitter, Model 1006 will display the rate of flow in engineering unit and total flow in the same or different engineering unit. If the loop is disconnected or auxiliary power fail, the displayed total and all programming parameters are stored in non-volatile memory, and are automatically recovered when the loop/auxiliary power is restored.

A selectable square root extractor function enables the output from a differential flow transmitter to be displayed in linear units. This facility can be enabled or disabled from front keys. When fitted with optional alarms, Model 1006 will detect high and low flow rates and can perform simple flow batching operations. The facility to program the batch warning point and end point simplifies the control of batch processes.

The unit has a 4-digit flow rate and a 6-digit batch total/ inventory-total display. If the integrated total exceeds 6 digits, the display rolls to zero and the number of such roll overs is recorded. The displays have floating decimal point position. The unit is also suitable to be used with flow transmitters having frequency output like turbine, PD, magnetic pick-up type of flow elements.

Model 1006 FIT is equipped with additional features like transmitter power supply to excite field transmitter, isolated retransmission output for recorder and serial communication on RS 485 over MODBUS RTU protocol for PC based data acquisition and reporting system.

This model is packaged in 96mm x 96mm x 175mm metallic enclosure with 92mm x 92mm panel cutout size. Model 1006 can also be packaged in weather proof IP 55 or flame proof housing with wall mounting facility.

Features

- Input selectable from current, voltage & frequency
- Square root extractor
- Transmitter Power Supply
- Separate rate and total displays
- 6-digit totalizer with password protected resetting
- Programmable conversion factor
- Options :
 - Alarm / Batch relay output
 - Retransmission output (Isolated)
 - RS 485 serial communication
 - Weather proof/ flame proof enclosures

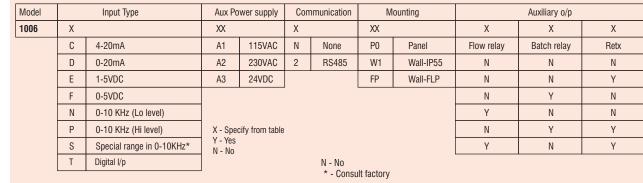
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TECHNICAL SPECIFICATIONS	1006	TECHNICAL SPECIFICATIONS	1006
General		Alarm Relays/Comm. Status	2 discrete LEDs
Power Supply	230VAC OR 115VAC +/- 10% @ 50Hz Terminal Selectable, Optional 24V DC	Rate Indication Range	Range programmable 0-9999
		Totalizer Range	0-999999
Power Consumption	<10 VA	Decimal point	Adjustable
Operating temperature	0 to 55 °C	User interface	4 keys in front sealed membrane
Operating humidity	< 95%RH (non condensing)	Scan time	250 mS
Warm-up time	10 min	Output	
Isolation level	1500V DC	Flow Alarms (Optional)	2 Relays rated 2A @ 230V AC
Process Value		Batch Alarms (Optional)	2 Relays rated 2A @ 230V AC
Measurement accuracy	± 0.25% of F.S ± 1Digit - For I/P signal. ± (0.45% of totalised reading + 1Digit) – for Integrated / Batch total.	Contact Type	C-NO-NC Single change over
		Retransmission output (Opti.)	Isolated 4-20 mA DC @ 500 Ohms
No. of signals	1(one)	Retransmission accuracy.	(0.25% of FS+1 count)
Input specification	Linear 4-20 mA/ 1-5 V DC, 0-20 mA/ 0-5 V DC.	Transmitter Power Supply	24V DC ±5% @ 50mA
		Serial Communication (Optional)	
	Frequency 0-10Khz Low level 0 to 1V, High level 5 to 15V	Baud rate	110-9600 bps, MODBUS, Programmable
Input impedance	250 Ohms for Current I/P	Connection	9 Pin D type
	20K Ohms for Voltage Input	Transmission distance	Less than 1200m for RS485
Polarity protection	Provided	Communication	Slave mode
Temperature drift	<0.001%FS/ °C	Application software	Optional
Digital Input	1 no. (Optional)	Data pattern	N,8,1
Instrument display	ZERO Value upon Input signal open	Error correction method	16 bit CRC
moti umont display	or short connection	Address range	1-99
Digital Calibration	Front keys	Physical	
Set value		Mounting type	Panel
Setting method	Instrument keypad	Bezel size	96mm(W) X 96mm(H)
Reset	Through Front Key password protected	Cut-out dimension	92mm(W) X 92mm(H)
Time Base for Totalizer	Programmable (Day / Hr / Min / Sec)	Depth with terminals	175mm
K Factor Function	Yes (Option)	Weight	Less than 2 Kg
Square root extraction	Yes	Hazardous classification	Use in safe area / Ex-Proof - Group IIA/IIB
Memory/Data storage	Use EEPROM. Data will not be lost when power off, can hold for 10 years	IP Class	Enclosure - IP20
		Enclosure type	General purpose MS Powder coated
Display		Protection (Optional)	IP55 or Ex-Proof - Group IIA/IIB
Type & color	Numeric 7 Segment RED LED	Electrical connection	2.5mm ² / Screwed
Process Value	0.56" 4 Digit	Std. accessories	Mounting clamps
Integrated (Total) Value	0.56" 6 Digit		

ORDERING CODE



All specifications are subject to change without notice due technology reasons. Doc.ref.CB-2/1006/R2/0110

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