FLOW TOTALIZER / BATCH CONTROLLER



Features

- Microcontroller based design.
- Analog Current or Frequency (Pulse) input
- Fully configurable settings
- High accuracy and linearity to input signal
- Four or Five digit flow rate display
- Eight-digit totalized value display
- Seven-segment red LED displays
- Two Relay change-over contacts for Rate or Batch Control
- Very low power consumption and heat dissipation
- Retransmission option.
- Auxillary Power supply for external Flow Transducer
- Universal AC Power Supply
- Rugged, industrial grade ABS enclosure
- High Noise immunity.
- Panel / Field / Hazardous-area installation in IP65 execution
- Proven record of several thousand installations
- Lifetime warranty on design and workmanship

Overview

The ASHE MX-450 and MX-460 are part of a range of Flow Rate Indicator Totalizers with Batch Control function, offered in a compact, rugged and reliable execution.

The instrument has two LED digital displays on the front panel – the Flow Rate Display and the Totalizer display. The RATE display indicates flow rate value on a four-digit (MX-450) or five-digit (MX-460) display, while the TOTALIZER display indicates the accumulated flow integrated over the selected time scale on an eight-digit display. The instrument has non-volatile memory.

The instrument accepts a standard analog input signal of 4 to 20 mA DC (two/four-wire) or a Pulse (Frequency) input of 0-10 kHz. An auxillary power supply is generated internally for powering the external Flow Transducer or Mass Flow Meter.

At the same time, it integrates this signal with respect to the selected time scale and displays it on the Totalizer display. Two Relay outputs are offered – each of which may be independently configured for either flow rate or the batch totalized value, as desired – these set points may be set through the Membrane Switch-pad on the front panel. Two LED indications show the over-range status of the two control Relays.

The Flow Indicator Totalizer Model MX-450 and MX-460 operate on universal AC power supply. They are available in panel-mount and field-mount (weather-proof/explosion-proof executions).

All ASHE range of instruments carry a lifetime warranty for design and workmanship.

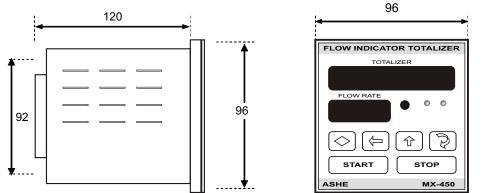
Specifications

Model Type Input Signal System Display Indications

Rate Scale Range Rate Calibration Range Output Signal Load Driving capacity Totalizer range Decimal point Response time

Output Contact rating Accuracy Resolution Power Supply Auxillary Power supply Bezel Dimensions Cut-out Dimensions Depth Enclosure Execution Weight ASHE MX-450. Digital Flow Indicator Totalizer. 4 to 20 mA DC Two wire / Four wire [to be specified]. Seven-segment 1/2" red LED display. Four/Five-digit for Flow Rate display. Eight-digit for Totalizer display. 0 to 9999/99999. Configurable. 4 to 20 mA DC retransmitted [optional]. Upto 600 Ohms. 0-99999999 [eight-digit]. Selectable for both displays. Typically 100 mS to within one count of the final value. Two control relay change-over contacts. 10 Ampere @ 230 V AC (Res. Loads). 0.1% FS. 0.1%, 1 digit. 90 to 270 V AC, 50 Hz (5%). 24 V DC to Transmitter (two-wire mode). 96 x 96 mm. 92 x 92 mm. 110 mm. Industrial grade ABS. Front-panel mounting. Approximately 1.0 kgs.

DIMENSIONAL DIAGRAM



HOW TO ORDER

HC	IN TO ORDER										_
1. a. b.	FLOW TOTALIZER (BATCH CONTROLLER) (with Dual Relay Control for Flow Rate / Total) Input (pre-specified) : 4 to 20 mA / 0 to 10 KHz. Display : Dual display 8+4 digit LED Power Supply : 90 to 270 V AC, 50 Hz " Panel mount version : 8 digit totalized display Display : Dual Display (8 digit + 4 digit) Display : Dual Display (8 digit + 5 digit)	MX-450 MX-460									
D.		10177 400									
	Configuration and Add-on options w										
1	NPUT SIGNAL / SENSOR										
•	4 to 20 mA DC										
•	4 to 20 mA DC with aux 24 VDC @ 100 mA power for Trans.										
•	Frequency, Proximity Sensor.										
2	POWER SUPPLY										
	Standard Power Supply offered										
•	Universal AC Power Supply, 90 to 270 V AC, 50/60 Hz. V										
•	Optional Power Supply available on request 24 V DC (±10%). D										
•	Other (to be specified).										
3	EXECUTION										
•	Panel mounting [96 x 96 x 110 mm]							D			
►	Field mounting in Weather-proof execution							W			
	(Polycarbonate enclosure, IP65 protection)						X				
•	Field mounting in Flame/Explosion-proof execution (Cast Aluminum Alloy LM6 enclosure, for Gas groups IIA, IIB)							Х			
4	RETRANSMISSION										
•	Retransmission of 4 to 20 mA DC									R	
►	Retransmission of 0 to 10 V DC									V	
	No Retransmission									0	
•	 Other (to be specified) 									Z	











TEMP. SCANNER





PROCESS CONTROLLER

SIGNAL ISOLATORS & TRANSDUCERS

SMPS POWER SUPPLIES