ASHE CONTROLS PVT LTD
an ISO 9001:2015 certified company

MX-450-W

MX-Series Flow Totalizer / Batch Controller in Weatherproof Execution



RoHS Compliant

MAKE IN INDIA

Overview

The ASHE MX-450W is a Flow Rate Indicator Totalizer with Batch Control function in a weatherproof IP65 enclosure suitable for field mounting.

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 four-digits 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 Flow rate Indicator / Totalizer accepts a standard analog input signal of 4 to 20 mADC (two/four-wire) or a Pulse (Frequency) input of 0-10 kHz and displays it on the four digit display representing the Flow Rate.

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 configured through the Membrane Switch-pad on the front panel. Two LED indications show the over-range status of the two control Relays. Options for analog retransmission (4 to 20 mA DC) and data communication (RS485 on Modbus RTU) are offered.

An auxiliary power supply is generated internally for powering the external Flow Transducer or Mass Flow Meter.

The instrument operates on 90 to 270 V, 50/60 Hz Universal AC power supply. Cable Glands are provided at the bottom of the enclosure for cable entry.

This product is backed by a full two-year warranty, covering all manufacturing defects and workmanship issues under normal operating conditions.

Specifications

Model	ASHE MX-450-W
Type	Digital Flow Indicator Totalizer in weatherproof execution.
Input Signal	4 to 20 mA DC (Optionally 0-10 KHz frequency signal)
System	Two-wire / Four-wire [to be specified].
Display	Seven-segment ½" red LED display.
Indications	Four-digit for Flow Rate display. Eight-digit for Totalizer display.
Flow Rate Scale Range	0 to 9999.
Totalizer Range	0 to 99999999 [eight-digit].
Rate Calibration Range	Configurable from front Keypad.
Decimal Point	Selectable for both displays.
Retransmission	4 to 20 mA DC retransmitted [optional].
Load Driving Capacity	Upto 600 Ohms.
Communication	RS485 on Modbus RTU protocol (optional)
Response Time	Typically 100 mS to within one count of the final value.
Control Output	Two control relay change-over contacts.
Contact Rating	10 Ampere @ 230 V AC (Res. Loads).
Accuracy	± 0.1% FS.
Resolution	± 0.1%, 1 digit.
Weight	Approximately 1 kg.
Power Supply	90 to 270 V AC, 50/60 Hz Universal AC Power (Optionally 24 VDC).
Auxiliary Power Supply	24 VDC at 100mA for Transmitter Power.
Dimensions	161 x 166 x 121 mm [H x W x D].
Ingress Protection	IP65 execution
Enclosure	Industrial grade Polycarbonate.
Operating Temperature	0 to 55°C

Features

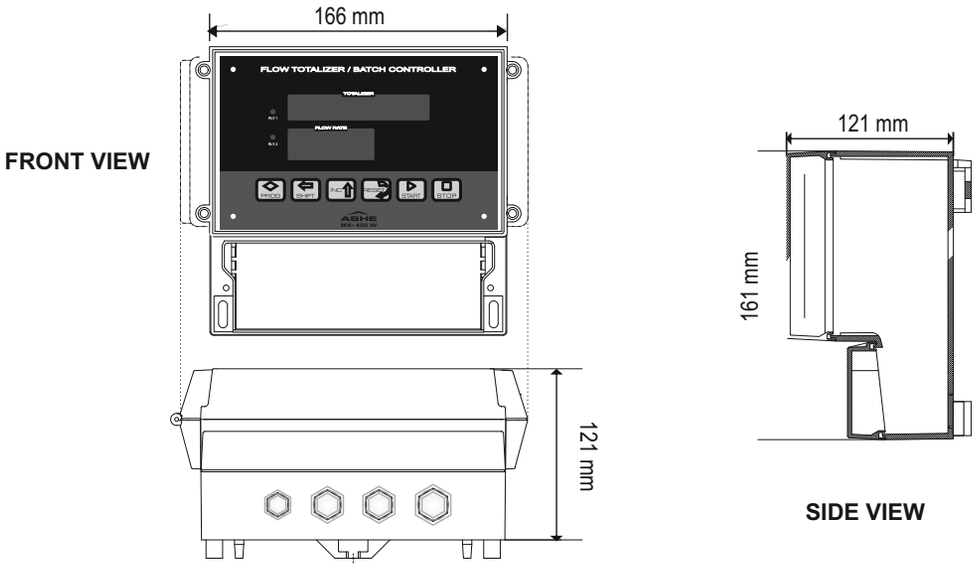
- Microcontroller based design.
- Analog Current or Frequency (Pulse) input
- Fully configurable settings
- High accuracy and linearity to input signal
- Four digit flow rate display
- Eight-digit totalized value display
- Seven-segment red LED displays
- RS485 on Modbus RTU communication (optional)
- Two Relay change-over contacts for Flow Rate or Batch Control
- Very low power consumption and heat dissipation
- Analog Retransmission option.
- Auxillary Power supply for external Flow Transducer
- Universal AC Power Supply (Optionally 24VDC)
- Rugged, industrial grade Polycarbonate enclosure
- High Noise immunity.
- Field installation in IP65 execution
- Hinged transparent cover for facia protection
- Two-year Performance Warranty
- Proven track record of successful site installations

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Dimensional Diagram



How To Order

	FLOW TOTALIZER (BATCH CONTROLLER)								
a.	**Dual Display (8 digit + 4 digit)**	**MX-450**							
b.	**Dual Display (8 digit + 5 digit)**	**MX-460**							
	Configuration and add-on options :								
1	**POWER SUPPLY**								
▸	AC Voltage 90 to 270 VAC, 50/60 Hz		A						
▸	DC Voltage 24 VDC		D						
2	**INPUT TYPE**								
▸	DC Current 4 to 20 mA DC			L					
▸	Pulse 0 to 10 Khz			P					
3	**EXECUTION**								
▸	Front Panel mounting				P				
▸	Field mounting in Weather-proof execution (Option only in MX-450)				W				
▸	Field mounting in Flame/Explosion-proof Ex-d execution				X				
4	**COMMUNICATION**								
▸	RS485 on Modbus RTU required					M			
▸	RS485 on Modbus RTU not required					N			
5	**RETRANSMISSION (4 to 20 mA DC)**								
▸	Retransmission required						R		
▸	Retransmission not required						N		
6	**AUX POWER OUTPUT**								
▸	Aux 24 VDC output required							Q	
▸	Aux 24 VDC output not required							N	

Our Other Products


FLOW TOTALIZER


SIGNAL ISOLATORS & TRANSDUCERS


TEMPERATURE SCANNER


FLAMEPROOF INSTRUMENTS


STATIC POWER SWITCHES

Designed and Manufacured by:

ASHE CONTROLS PRIVATE LIMITED

6/317, 318 & 319, Jogani Industrial Complex, Near ATI, Sion-Trombay Road, Chunabhatti (East), Mumbai - 400 022, India.

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