

Flow Totalizer / Batch Controller in Weatherproof execution

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 instrument accepts a standard analog input signal of 4 to 20 mADC (two/four-wire) or a Pulse (Frequency) input of 0-10 kHz. An auxiliary power supply of 24 VDC @100mA 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 configured 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-450W operates on universal AC power supply. Cable Glands are provided at the bottom of the enclosure for cable.



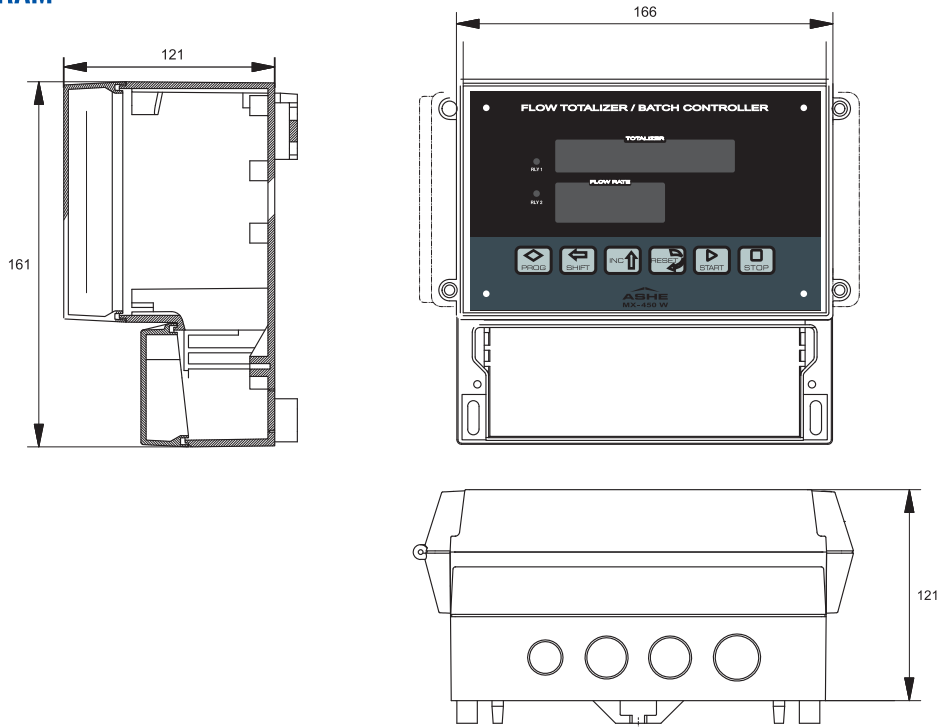
SPECIFICATIONS

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.
Rate Calibration Range	Configurable from front Keypad.
Retransmission	4 to 20 mA DC retransmitted [optional].
Load Driving Capacity	Upto 600 Ohms.
Communication	RS485 on Modbus RTU protocol (optional)
Totalizer Range	0 to 99999999 [eight-digit].
Decimal Point	Selectable for both displays.
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.
Power Supply	90 to 270 V AC, 50/60 Hz
Auxillary Power Supply Out	24 V DC at 100mA for Aux Transmitter Power.
Dimensions	166 x 161 x 121 mm [L x W x D].
Enclosure	Industrial grade Polycarbonate.
Ingress Protection	IP65 execution
Weight	Approximately 1 kg.

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
- Rugged, industrial grade Polycarbonate enclosure
- High Noise immunity.
- Panel / Field / Hazardous-area installation in IP65 execution options
- Proven record of several thousand installations
- Hinged transparent cover for facia protection

DIMENSIONAL DIAGRAM



HOW TO ORDER

<p>1. FLOW TOTALIZER (BATCH CONTROLLER) in Weather-Proof Execution (with Dual Relay Control for Flow Rate / Total)</p>	MX-450W				
CONFIGURATION AND ADD-ON OPTIONS					
<p>1 INPUT SIGNAL</p> <ul style="list-style-type: none"> ▶ 4 to 20 mA DC ▶ 4 to 20 mA DC with aux 24 VDC @ 100 mA power for Trans. ▶ Frequency, Pulse Input 0 to 10 KHz 	L Q F				
<p>2 RETRANSMISSION</p> <ul style="list-style-type: none"> ▶ Retransmission of 4 to 20 mA DC ▶ No Retransmission 		R O			
<p>3 COMMUNICATION</p> <ul style="list-style-type: none"> ▶ RS485 on Modbus RTU required ▶ RS485 on Modbus RTU not required 			M N		
<p>4 POWER SUPPLY</p> <ul style="list-style-type: none"> ▶ Universal AC Power Supply, 90 to 270 V AC, 50/60 Hz. ▶ 24 V DC (±10%). 					V D

OUR OTHER PRODUCTS



FLOW TOTALIZER



SIGNAL ISOLATORS & TRANSDUCERS



TEMPERATURE SCANNER



FLAMEPROOF INSTRUMENTS



STATIC POWER SWITCHES



Designed and Manufactured by:

ASHE CONTROLS PRIVATE LIMITED

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

Phone : (022) 2405 1561, 2405 5791, 2405 5543 • E-mail : sales@ashecontrols.com • Website: http://www.ashecontrols.com