



MX-450-Ex & MX-460-Ex Flow Totalizer / Batch Controller







OVERVIEW

The ASHE MX-450-Ex and MX-460-Ex 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-Ex) or five-digit (MX-460-Ex) 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 overrange status of the two control Relays.

The Flow Indicator Totalizer Model MX-450-Ex and MX-460-Ex 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

SPECIFICATIONS

Model ASHE MX-450-Ex (8 Digit + 4 Digit)
ASHE MX-460-Ex (8 Digit + 5 Digit)

Type Digital Flow Indicator Totalizer in Flameproof Execution.
Input Signal 4 to 20 mA DC (Optionally frequency signal)
System Two wire / Four wire [to be specified].

DisplaySeven-segment ½" red LED display.IndicationsFour/Five-digit for Flow Rate display.Eight-digit for Totalizer display.

Flow Rate Scale Range 0 to 9999/99999.

Rate Calibration Range Configurable.

Output Signal 4 to 20 mA DC retransmitted [optional].

Load Driving capacityUpto 600 Ohms.Totalizer range0 to 99999999 [eight-digit].Decimal pointSelectable for both displays.

Response time Typically 100 mS to within one count of the final value.

Output Two control relay change-over contacts.
Contact rating 10 Ampere @ 230 V AC (Res. Loads).

 $\begin{array}{lll} \textbf{Accuracy} & \pm \ 0.1\% \ \textbf{FS}. \\ \textbf{Resolution} & \pm \ 0.1\%, \ 1 \ \textbf{digit}. \\ \textbf{Power Supply} & 90 \ \textbf{to} \ 270 \ \textbf{V} \ \textbf{AC}, \ 50/60 \ \textbf{Hz} \\ \end{array}$

Auxillary Power supply 24 V DC at 100mA for Aux Transmitter Power.

Dimensions $350 \times 250 \times 250 \text{ mm}$ [L x W x D].

Enclosure Aluminium Alloy LM6 Die-cast enclosure suitable for Zone I, gas groups IIA/IIB certified by CIMFR Dhanbad

Hazardous-area installation in IP65 execution

Weight Approximately 2.5 kgs.

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 Aluminium Die-cast enclosure
- High Noise immunity.
- Panel / Field / Hazardous-area installation in IP65 execution
- Proven record of several thousand installations
- Lifetime warranty on design and workmanship

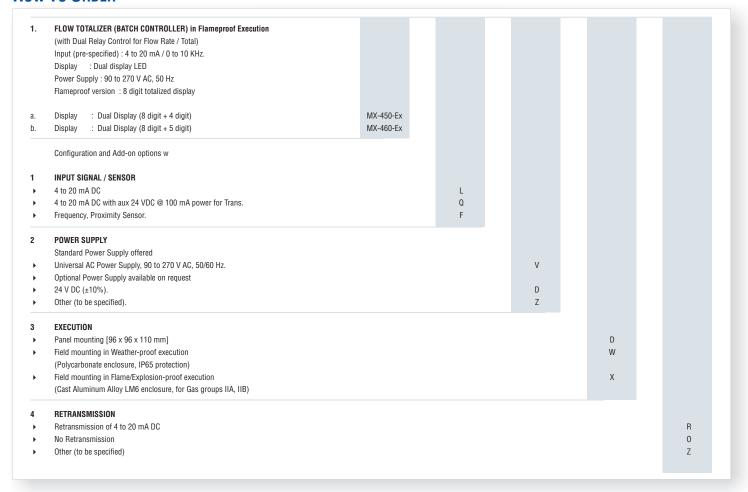
Execution



MX-450-Ex & MX-460-Ex Flow Totalizer / Batch Controller

DIMENSIONAL DIAGRAM

How To Order



OUR OTHER PRODUCTS





ASHE CONTROLS PRIVATE LIMITED

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