

CHEM TEC EQUIPMENT COMPANY

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INSTALLATION

MODEL MAO SERIES

SPECIFICATIONS:

STANDARD FLOW SETTINGS	
MODEL	Calibration done in water Flow Linear Range
MAO-125 AA	20 - 70 cc/m
MAO-125 BB	50 - 150 cc/m
MAO-250 AA	100 - 500 cc/m
MAO-250 BB	260 - 1800 cc/m
MAO-500 AA	0.5 - 2.0 gpm
MAO-500 BB	1.0 - 3.5 gpm

PERFORMANCE:

TOTAL ACCURACY: +/- 10 %

REPEATABILITY: +/- 3 % full scale

LINEARITY: +/- 4 % full scale

OPERATING TEMPERATURE RANGE:

AMBIENT: 32 to 220 °F

MEDIA: 32 to 220 °F

CONNECTIONS:

MAO-125: 1/8" FNPT

MAO-250: 1/4" FNPT

MAO-500: 1/2" FNPT

ELECTRICAL SPECIFICATIONS:

POWER REQUIREMENTS:

VOLTAGE: 12-18 VDC Regulated +/-10%

CURRENT: 20 mA maximum

OUTPUT:

ANALOG: 0-5 VDC, 2 mA maximum load

DIGITAL: Square wave, 6.5 V peak to peak, 200 Hz

LOAD IMPEDANCE: 2,500 Ω to ∞

LEADS: PVC Jacketed, 22 AWG 96", Strain Relief

NOTES: Calibration is performed using a common ground.

Calibration with isolated power supply is available,

please specify when ordering.

TTL compatible output available upon request: consult factory

INSTALLATION:

Control valves should be placed downstream of the MAO flow meter. The flow meter should never be installed so that it drains completely when flow ceases.

When particles may be present in the media, a filter should be installed ahead of the flow meter. It is advisable to filter to 10 microns.

The MAO flow meter should not be located near ferrous material or near strong electro-magnetic fields.

The MAO flow meter is sensitive to velocity profile disturbances in the flow stream. It is advisable that straight lengths of 10 inside diameters upstream and 5 inside diameters downstream be used.

All lines should be completely purged of air before use.

The use of pipe dope is not recommended. Use care when using Teflon tape to avoid shreds from entering the MAO flow meter.

MOUNTING:

MAO-125 AA: Mount with INLET vertical, INLET port up, OUTLET port horizontal.

MAO-125 BB, MAO-250 AA, MAO-250 BB

MAO-500 AA, and MAO-500 BB: Mount with INLET vertical, INLET port down, OUTLET port horizontal.

WIRING CONNECTIONS:

- 10 ANALOG OR - 20 DIGITAL

