

## DC Input Limit Alarms

### Plug-in Design



- MSEF** Front Control Button Adjustment, Dual Alarm  
**AYDV** Potentiometer Adjustment, Dual Deviation Alarm  
**ASD1** Thumbwheel Switch Adjustment, Dual Alarm  
**KSED** Thumbwheel Switch Adjustment, Dual Alarm

### Compact Plug-in Design



- M2AVS** Potentiometer Adjustment, Dual Alarm  
**M2SED** Thumbwheel Switch Adjustment, Dual Alarm, SPDT  
**M2AS** Thumbwheel Switch Adjustment, Single Alarm, DPDT  
**M2AS1** Thumbwheel Switch Adjustment, Single Alarm, SPDT

### AL Series

#### Direct Sensor Input, SPDT Alarm

- Input DC, T/C, RTD, Pot, Pulse, AC, 2-wire Transmitter
- Output 120 Vac or 30 Vdc @1A; 240 Vac @0.5A

(For details, refer to Signal Conditioners Data Library at [www.m-system.com](http://www.m-system.com))



### AE Series

#### Direct Sensor Input, SPDT plus DC Transmitter Output

- Input DC, T/C, RTD, Pot, Pulse, AC, 2-wire Transmitter
- Output 120 Vac or 30 Vdc @1A; 240 Vac @0.5A
- Specific DC output range within -10 to +12 V or 0-20 mA

(For details, refer to Signal Conditioners Data Library at [www.m-system.com](http://www.m-system.com))



### SPECIFICATIONS

Series	M-UNIT			K-UNIT	M2 Series		
Model No.	MSEF	AYDV	ASD1	KSED	M2AVS	M2SED	M2AS / M2AS1
Input (specified when ordering)	4-20 mA, 2-10 mA 1-5 mA, 0-10 V 0-5 V, 1-5 V	1-5 V, 4-20 mA 10-50 mA (reference 1-5 V)	4-20 mA 0-10 V, 0-5 V, 1-5 V	4-20 mA 0-10 V 0-5 V, 1-5 V	Specific range of -300 to +300 V	4-20 mA, 0-10 V, 0-5 V, 1-5 V	
Alarm points	Dual (Hi/Lo selectable)		Dual (Hi/Lo selectable)	Dual (Hi/Lo)	Dual (Hi/Lo selectable)	Dual (Hi/Lo)	Single (Hi/Lo selectable)
Relay contact	SPDT		SPDT	SPDT	N.O.	SPDT	DPDT / SPDT
Rated load	120 Vac @5A 240 Vac @2.5A 30 Vdc @5A	120 Vac @1A 240 Vac @0.5A 30 Vdc @1A	120 Vac @5A 240 Vac @2.5A 30 Vdc @5A	120 Vac @5A 240 Vac @2.5A 30 Vdc @5A	120 Vac @0.5A 240 Vac @0.5A 30 Vdc @0.5A	120 Vac @5A 240 Vac @2.5A 30 Vdc @5A	
DC power input	12, 24 Vdc	12, 24, 48, 110 Vdc	----	----	24 Vdc		
AC power input	100, 110, 115, 120 Vac 200, 220, 240 Vac		100-120 Vac 200-240 Vac	100-120 Vac 200-240 Vac	100-240 Vac		
Set accuracy	±0.5%		±0.5%	±0.5%	±0.5% monitor	±0.5%	±0.5%
Response	≤0.5 sec.		----	≤0.7 sec.	≤0.5 sec.	0.5 ±0.2 sec.	≤0.5 sec.
Operating temp	-5 to +60°C (-23 to +140°F)			-5 to +55°C (23 to 131°F)			
Insulation resistance	≥100MΩ with 500 Vdc						
Dielectric strength	2000 Vac @1 minute (input to output to power to ground)						
Setpoint adj.	-10 to +110%	-50 to +50%	0 to 99%	0 to 99%	0 to 100%	0 to 99%	
Deadband	0.5 to 15%	0.2 ±0.1%	0.5, 1 to 14%	1%	≤0.5%	1 ±0.3%	1 to 99%
CE marking	Yes	----	Yes		Yes (24 Vdc)	Yes	Yes
Safety approval	UL & C-UL	----	UL & C-UL		----	UL & C-UL	----