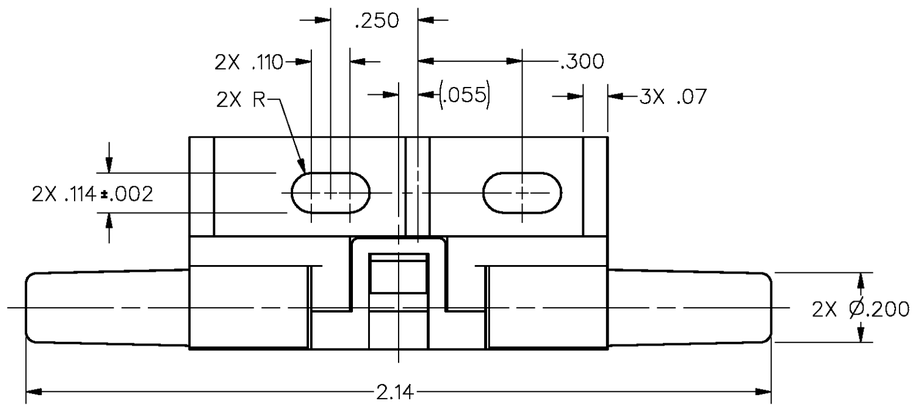
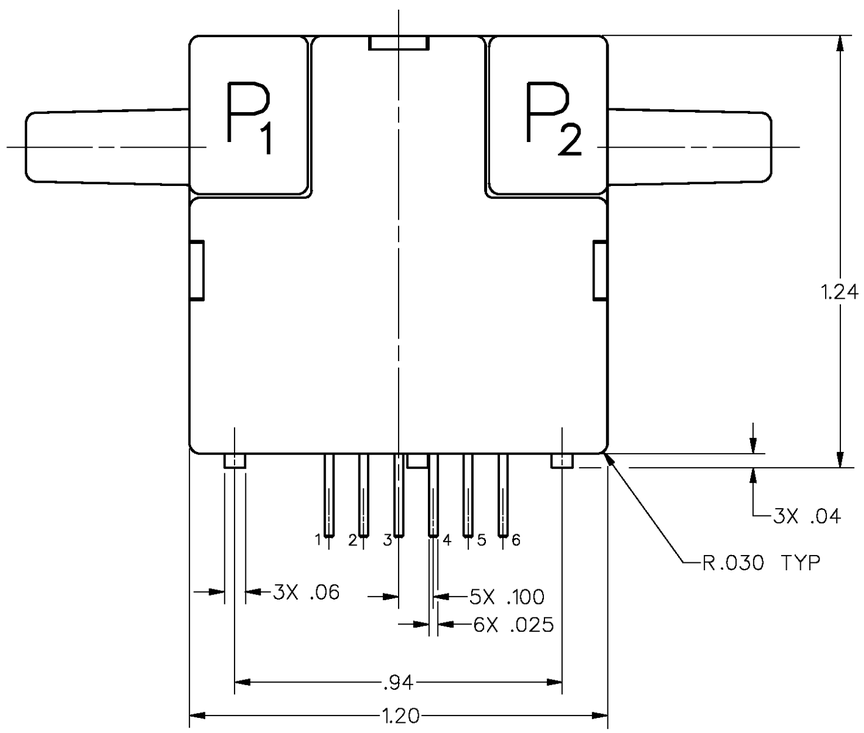


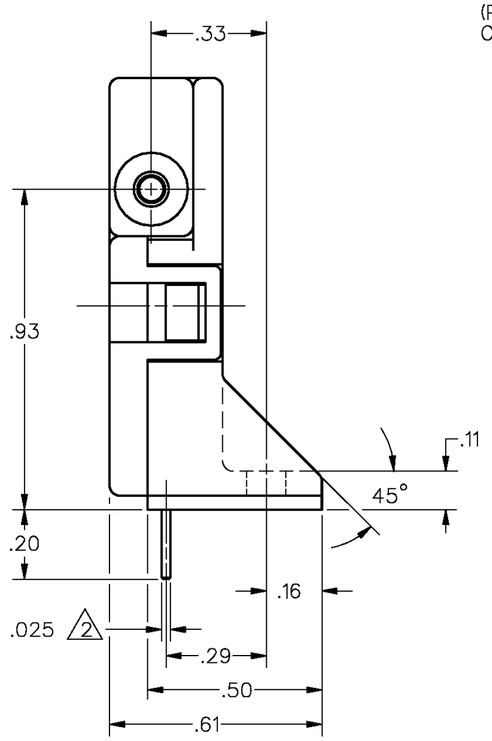
SPECIFICATIONS	AWM1300V
RECOMMENDED EXCITATION **(8VDC MIN)** /2\	10.000±.010VDC (15.000 VDC MAX)
POWER CONSUMPTION	40mW MAX
OUTPUT VOLTAGE TRIM POINT	50mV @ 650 sccm
NULL VOLTAGE	0.0±1.5mV
NULL VOLTAGE SHIFT (−25°C TO +85°C)	±1.5mV MAX
OUTPUT VOLTAGE SHIFT (+25°C TO −25°C) /4\ (+25°C TO +85°C) /4\	±4% F.S.O. MAX ±4% F.S.O. MAX
REPEATABILITY & HYSTERESIS /3\	±1.0% F.S.O. MAX
RESPONSE TIME /1\	3.0 msec MAX
OPERATING TEMPERATURE RANGE	−25°C TO +85°C
STORAGE TEMPERATURE RANGE	−40°C TO +90°C
TERMINATION	.025 SQ. IN.
WEIGHT	10.8 GRAMS
SHOCK RATING	100 G PEAK
OVERPRESSURE	25 PSI MAX
SENSOR RESISTANCE	5 K−OHMS TYP
SENSOR CURRENT (PIN 2−PIN 1, PIN 6−PIN 1)	0.6 mA MAX

AWM1300V
FLOW SPECIFICATIONS

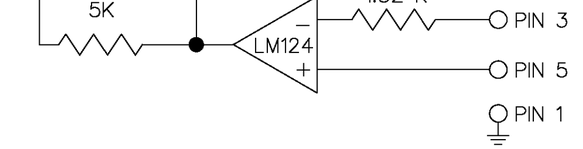
FLOW (sccm)	NOMINAL (mV)	TOL. (±mV)
1000	57.0	7.0
800	53.0	6.0
650	50.0	5.0
400	40.0	6.0
200	27.0	5.0
0	0.0	1.5
−200	−28.9	15.0
−400	−41.2	26.0
−650	−48.2	29.5

NOTES
/1\ RESPONSE TIME IS TYPICALLY 1 msec FROM 10%−90%
/2\ OUTPUT VOLTAGE IS RATIOMETRIC TO SUPPLY VOLTAGE
/3\ REPEATABILITY & HYSTERESIS TOLERANCES REFLECT INHERENT INACCURACIES OF THE MEASUREMENT EQUIPMENT
/4\ TEMPERATURE SHIFTS IN THE MASS FLOW DEVICES ARE DUE TO THE CHANGE OF THE SECOND ORDER TCR COEFFICIENT OVER TEMPERATURE
5 − POSITIVE FLOW DIRECTION IS DEFINED AS PROCEEDING FROM P1 TO P2 AND RESULTS IN POSITIVE OUTPUT (PIN 6 > PIN 2). NEGATIVE FLOW DIRECTION IS DEFINED CONVERSELY AND RESULTS IN NEGATIVE OUTPUT (PIN 6 < PIN 2)

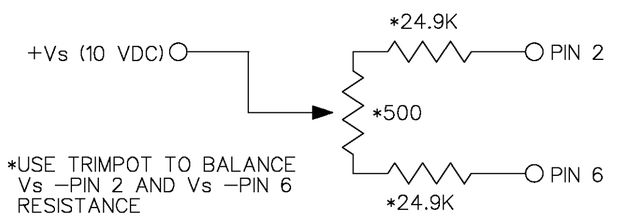




HEATER CONTROL CIRCUIT



SENSING BRIDGE SUPPLY CIRCUIT



*USE TRIMPOT TO BALANCE Vs −PIN 2 AND Vs −PIN 6 RESISTANCE

DRAWING NUMBER	M AWM1300V
ISSUE	4
RELEASE NO.	PR−21110
REPLACES	X96708−AW
PAGE	1 OF 1

REVISIONS		
A	CO−83279	G J W 9 SEP 96
B	C083694	J A K 29 APR 97
C	C094375	TSM 23 MAR 99

DRAWN	J A F	27 MAY 94	
CHECK	J J O	1 JUN 94	
CHECK			
CHECK			

FORMTEK

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MASS AIRFLOW SENSOR

CATALOG LISTING
AWM1300V

THIRD ANGLE PROJECTION

SCALE 3 : 1

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

ONE PLACE	(.0)	±.030
TWO PLACES	(.00)	±.015
THREE PLACES	(.000)	±.005
ANGLES		±

WEIGHT