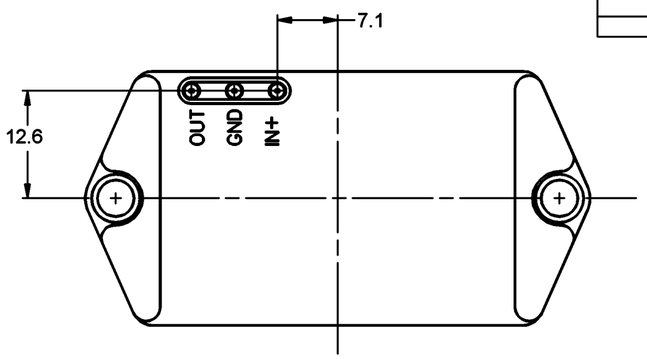
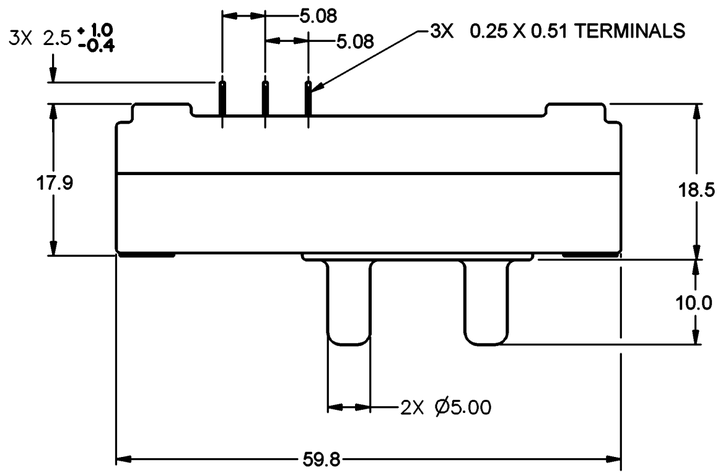
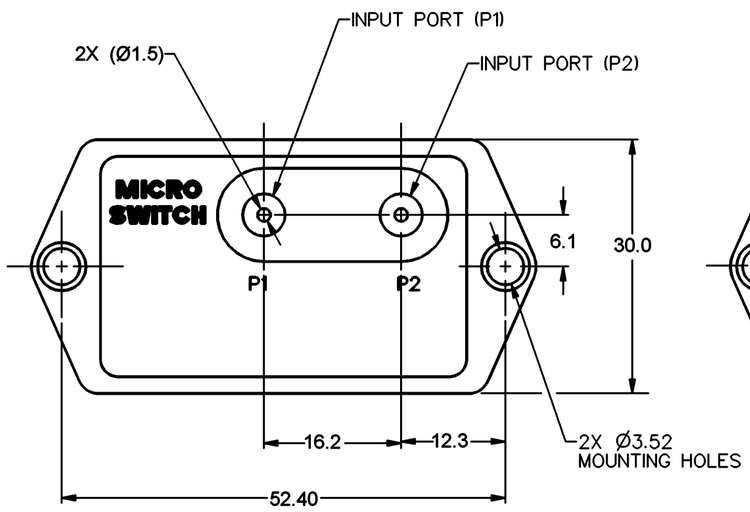
M 143PC01 SERIES CHART 1

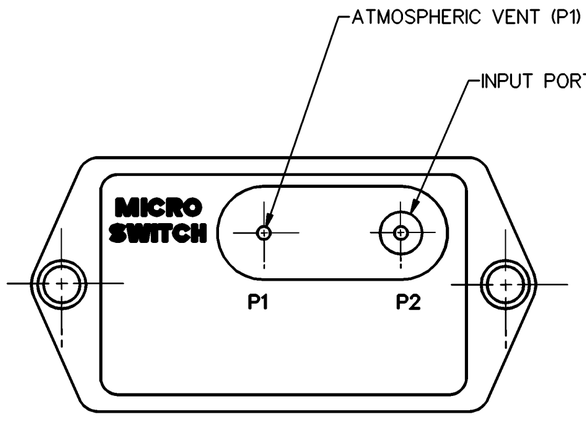
CATALOG LISTING	TYPE	OPERATING PRESSURE RANGE
143PC01D	D	±1 PSID







TYPE "D" (DIFFERENTIAL)



TYPE "G" (GAGE)

GENERAL OPERATING CHARACTERISTICS

PRESSURE RANGE	−51.7 TO 51.7 mmHg (−1 TO 1 PSI)
OVERPRESSURE	1035 mmHg (20 PSI)
TEMPERATURE RANGES	
STORAGE	−55 TO +125°C
OPERATING	−40 TO +85°C
COMPENSATED	+5 TO +45°C
SUPPLY VOLTAGE	7 TO 16 VDC
SUPPLY CURRENT	20mA MAX WITH 10K LOAD
OUTPUT VOLTAGE	PROPORTIONAL TO SUPPLY VOLTAGE OVER ABOVE RECOMMENDED RANGE
SHORT CIRCUIT LIMIT	MAY BE SHORTED INDEFINITELY
OUTPUT RIPPLE	NONE
GROUND REFERENCE	SUPPLY AND OUTPUT ARE COMMON

ELECTRICAL PERFORMANCE AT 25°C AND 8.00±0.01 VDC SUPPLY

OUTPUT VOLTAGE	
143PC01D	
NULL (0 PSID)	3.50±0.05 VDC
+1.0 PSI (P2 > P1)	6.00±0.20 VDC
1.0 PSI (P2 < P1)	1.00 VDC TYP
SENSITIVITY	48.36mV/mmHg 2.5 V/PSI
LINEARITY (%F.S.O.) 5	±0.75 (BEST FIT P2 < P1) ±1.50 (BEST FIT P2 > P1)
HYSTERESIS & REPEATABILITY (%F.S.O.) 5	±0.3 TYPICAL
TEMPERATURE ERROR (%F.S.O.) 5	
5° TO 45°C	±1.5 MAX
RESPONSE TIME	1 m SEC MAX

NOTES:
1 − INPUT MEDIA:
P1 − DRY GASES ONLY: CONNECTION SIDE OF SENSOR
P2 − LIMITED ONLY TO THOSE MEDIA THAT WILL NOT ATTACK POLYESTER, SILICON OR SILICONE BASED ADHESIVE
2 − TERMINALS ARE PLATED FOR SOLDERING
3 − LIMIT SOLDERING TO 315°C MAX FOR 10 SECONDS MAX
4 − UNITS ARE OF PLASTIC CONSTRUCTION
5 F.S.O. IS THE ALGEBRAIC DIFFERENCE BETWEEN THE OUTPUT END POINTS (NULL AND FULL PRESSURE)

METRIC	INCH
0.4	.016
0.25	.010
0.51	.020
1.0	.039
1.5	.04
2.5	.099
3.52	.139
5.00	.197
5.08	.200
6.1	.240
7.1	.280
10.0	.39
12.3	.484
12.6	.496
16.2	.64
17.9	.70
18.5	.73
30.0	1.18
52.40	2.06
59.8	2.35

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ISSUE 5

REVISIONS

A	NEW DWG 2071384	J A S	7 NOV 91
B	CO-77837	J A S	21 APR 95
C	CO-85394	DJH	3 FEB 00
D	0064472	PRS	20MAY10

RASTER DRAWN J A S 7NOV91 CHECK RS 20MAY10 CHECK CHECK

MASTER REDUCED
ANSI Y14.5M−1982 APPLIES

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FED. MFG. CODE 81929

PRESSURE TRANSDUCER

CATALOG LISTING
143PC01 SERIES
CHART 1

THIRD ANGLE PROJECTION

SCALE 2 : 1

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

NO PLACE	(0)	± 1 mm
ONE PLACE	(0.0)	± 0.4 mm
TWO PLACE	(0.00)	± 0.15 mm
ANGLES		±

WEIGHT