FO-52847-F

REV	DOCUMENT	CHANGED BY	CHECK
3	0033839	PRS 13SEP07	CMH

XPC A

SERIES — MOTOROLA HOUSING COMPENSATED AND CALABRATED (mV)

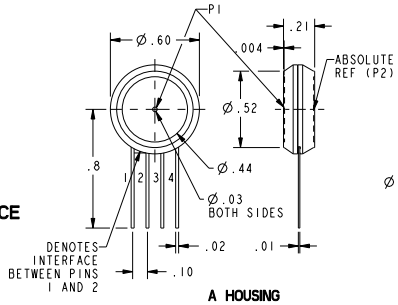
DESIGNATES PRESSURE - NO DESIGNATION (PSI)

PRESSURE RANGE — 05, 15, 30, 60, 100 PSIA

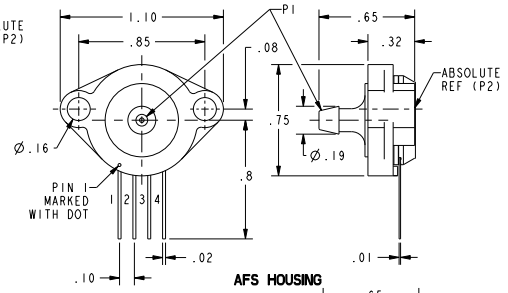
PRESSURE REFERENCE
A - ABSOLUTE ≥5 PSIA

PORT OPTION
F - AXIAL
T - RADIAL
FS - OFFSET AXIAL

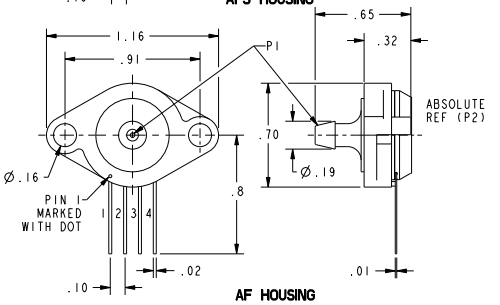
ACCURACY GRADE
C - COMMERCIAL GRADE
H - HIGH GRADE



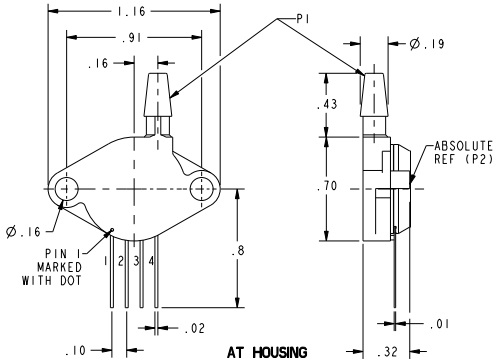
A HOUSING



AFS HOUSING



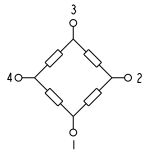
AF HOUSING



AT HOUSING

XPC A STYLE (ABSOLUTE)	PERFORMANCE AT 25°C AND 12±0.01 VDC (UNLESS OTHERWISE STATED)									
	C-GRADE			H-GRADE			UNITS	FULL SCALE PRESSURE PSIA	PROOF PRESSURE PSIA	BURST PRESSURE PSIA
	MIN	NOM	MAX	MIN	NOM	MAX				
OFFSET (0 PSIA) (FOR ALL ABSOLUTE LISTINGS) (1)	-1	0	1	-0.5	0	0.5	mV			
5 PSIA SPAN (P1>P2)	57	60	63	59	60	61	mV	5	15	25
15 PSIA SPAN (P1>P2)	85	90	95	89	90	91	mV	15	45	75
30 PSIA SPAN (P1>P2)	85	90	95	89	90	91	mV	30	90	150
60 PSIA SPAN (P1>P2)	85	90	95	89	90	91	mV	60	180	300
100 PSIA SPAN (P1>P2)	95	100	105	99	100	101	mV	100	250	400
COMBINED LINEARITY AND HYSTERESIS (4)	---	0.25	1	---	0.25	0.5	ppm/°C			
NULL SHIFT OVER TEMPERATURE (0-25, 25-70 °C) (3)	-1	---	1	-0.5	---	0.5	ppm/°C			
SPAN SHIFT OVER TEMPERATURE (0-25, 25-70 °C) (3)	-2	---	2	-1	---	1	% SPAN			

GENERAL OPERATING CHARACTERISTICS	ALL PRESSURES AND GRADES			
	MIN	NOM	MAX	UNITS
EXCITATION VOLTAGE	3	12	16	Vdc
INPUT RESISTANCE	5	---	---	K-OHMS
OUTPUT RESISTANCE	---	3	---	K-OHMS
OPERATING TEMPERATURE	-25	25	85	°C
STORAGE TEMPERATURE	-40	---	125	°C



EQUIVALENT CIRCUIT

PIN OUT	
1	-V EXCITATION
2	+ OUTPUT SIGNAL
3	+ V EXCITATION
4	- OUTPUT SIGNAL

CATALOG LISTINGS
XPC05AFSC (3)
XPC05ATH (3)
XPC15AFC (3)
XPC15AFH
XPC15AFSC
XPC15AC
XPC15ATC
XPC15ATH
XPC30ATC
(2)
(2)
(2)

NOTES
(1) OFFSET IS A CALCULATED VALUE AS FOLLOWS: 2 POINTS, (0.5 PSIA AND FULL SCALE PRESSURE) ARE USED TO ESTABLISH THE LINE FROM WHICH THE OFFSET IS CALCULATED
2 - SPAN IS THE ALGEBRAIC DIFFERENCE BETWEEN THE OUPUT AT FULL SCALE PRESSURE AND THE OFFSET OUTPUT
(3) TEMPERATURE ERROR IS CALCULATED WITH RESPECT TO 25°C
(4) LINEARITY IS MEASURED AT 1/2 FULL SCALE PRESSURE USING BEST STRAIGHT LINE FIT
5 - THE OUTPUT OF THE SENSOR IS PROPORTIONAL, RATIOMETRIC, TO THE EXCITATION VOLTAGE. ALL SPECIFICATIONS WILL NOMINALLY BE CHANGED BY THE RATIO OF $V_{EXCITATION}/12.0$ Vdc
6 - LIMIT SOLDERING TO 315°C FOR LESS THAN 10 SECONDS
7 - TERMINAL NO. 1 IS IDENTIFIED ON THE DRAWING WITH EITHER A DOT ON THE HOUSING OR A TAB BETWEEN TERMINALS
8 - APPLYING PRESSURE TO PORT NO. 1 RESULTS IN POSITIVE GOING OUPUT
9 - P1 INPUT MEDIA RESTRICTED TO DRY GASES ONLY

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE: (X) USC (INCH) CUSTOMARY ( ) SI (mm) METRIC

NO PLACE	X	±.040	±1
ONE PLACE	.X	±.030	±0.4
TWO PLACE	.XX	±.015	±0.15
THREE PLACE	.XXX	±.005	±
ANGLES		±	±

RAW MATERIAL-COMMERCIAL STANDARD

THIRD ANGLE PROJECTION

DRAWN	TRF	02APR01
CHECK	SAV	02APR01

DIMENSIONS ARE TO BE MET BEFORE PROTECTIVE COATINGS ARE APPLIED

3D PTC | ASME Y14.5M-1994

Honeywell

TITLE: PRESSURE SENSOR

SIZE	DWG TYPE	DRAWING NAME	REV
C	1	XPC ABS SERIES CHART 1	3

SCALE 2:1 | WEIGHT | SHEET 1 OF 1