

AUTO ZEROING

(Zero Point)

Drift .

Thermal Drift

- 가 가 가 가
- 가

Electrical Drift

- Electrical Drift electronic heat, component aging, (,), 가 Drift.
- (, ,)
- Drift .

Mechanical Drift

- (sensing head)
- 가
- Span 가
- Zero 가
- Drift가 .

FMS

가

(1.0"W.C.)

Drift가

Zero Point()가

가

(

,)

가 .

4

가 10

Drift가

(

3-4

1)

가 .

가

3.8MPS(750FPM, 0.035 in.W.C.)

()

가

3.8m/s

가

0.01 in.W.C(0.00036PSI, 0.000025kg/cm², 0.254mmH₂O)

Zero 가

가

, 가

가

Zero Point()

Auto Zeroing

가

Zero 가

가 .

Auto Zeroing Circuitry

가

가

Example :

FMS Full Span 0.15" w.c. ,

130%

0.2"W.C.

Full Span 가

가 .

가 50% Turndown

1%

Zero Drift가

가 , Auto Zeroing Circuitry

Operating Span

:

TRANSDUCER DATAS			
	JDP-AZ2000 Series	A DP 1000 Series	S 264 Series
Full Span	0 - 0.2in.W.C.	0 - 0.25in.W.C.	0 - 0.2in.W.C.
	±0.5% of FS	±1.5% of FS	±1.3% of FS
	Yes	No	No
	±0.005% of FS/	±0.055% of FS/	±0.033% of FS/
	Calibration at 70	Calibration at 70	Calibration at 70
Operating Conditions			
(0.15" x 50%)	0.075"WC	0.075"WC	0.075"WC
	104	104	104
Accuracy at Operating Conditions			
(at Full Span)	0.5X0.2"=0.001"W.C.	1.5X0.25"=0.00375"W.C.	1.3X0.2"=0.0026"W.C
(at Operating Span)	0.001"/0.075" =1.33%	0.00375"/0.075" =5.00%	0.0026"/0.075" =3.47%
Accuracy at Operating Conditions with 1% Zero Drift			
(at Full Span)	0.5X0.2"=0.001"W.C.	1.5X0.25"=0.00375"W.C.	1.3X0.2"=0.0026"W.C
1%	No Zero Drift	1%X0.25"=0.0025"W.C.	1%X0.2"=0.002"W.C.
	0.001/0.075= 1.33%	(0.00375+0.0025)/0.075 =8.33%	(0.0026+0.002)/0.075 =6.13%
Thermal Effect at Operating Conditions			
104 () - 70 ()	34	34	34
(at Full Span)	0.005%X34 =0.17%	0.055%X34 =1.87%	0.033%X34 =1.122%
(at Operating Span)	(0.17%X0.2")/0.075" = 0.45%	(1.87%X0.25")/0.075" = 6.23%	(1.122%X0.2")/0.075" = 2.99%
Total Accuracy at Operating Conditions			
(at Operating Span)	1.33% + 0.45% = 1.78%	8.33% + 6.23% = 14.56%	6.13% + 2.99% = 9.12%

Drift 가 (Auto Zeroing) 가 (FMS) 1% Zero 가

0.01%/ 가