```
(Differential Pressure Transducer)
                                                                              가
(mADC, VDC)
                                                  (non-linearity),
                                                                            (hysteresis),
       (deadband),
                              (non-repeatability)
                                                                가
                                     가
                                                                                     가
 가
                             가
                                                     가
                                                               가
                                                                4가
Accuracy, Operating Span, Thermal Effect
                                         Auto Zeroing Circuitry
* Accuracy(
                          가
                                                 )
      가
                                                                       "가
                                                                                (visible
                                   Accuracy
summation)"
                               non-linearity, hyateresis, deadband,
                                                                       non-repeatability
가
                                      가
                                                                   가
                   Accuracy
Accuracy
                       %FS(percentage of the full span)
Accuracy
                                                                   . ( : .5% of FS
                가 full span
                                                                                 가
Accuracy
                                  FS
                                       .5%
                  ).
* Operating(Input) Span( ( )
                                   ).
                            가
                                                                     가
Operating Span
                                                                          가 0.35in.W.C.
                                                            가
                     full span(
                                      ) 0.5in.W.C.
    0.35in.W.C.
                      Operating(Input) Span
Operating Span
                                  full span
                                                    operating span
        Accuracy
                                         full span
```

```
Accuracy x ----- = Accuracy at Operating Span operating span
```

```
* Thermal(Temperature) Effect(
                                    ).
Thermal Effect
                                                                 가
  ("Thermal Effect"
                                            )
                                                               Accuracy
                                   thermal effect %F.S.(percentage of full span)
  %F.S.O.(percentage of full scale output)
                                                                   Operating Span
1.
                                                - Minimum 0.01"W.C.
2.
                                    (accuracy + temperature effect)
                                                  (
                                                            가
3.
(operating span turndown)
         VAV fan control system
                                    process setback mode
                                                                            20%
                turndown
                                                      5
                                                          1
                                                                   turndown
                       가
                                                             Operating Span
                                                                                25
                                                                                     1
turndown
                          가
                                                      full span
                                                      가
가
                                                   가
             가
                      40
```

.

**Example 1**: FMS Full Span 0.15"W.C. ,

130% 0.2"W.C. Full Span 가 가

가 ±0.5%, ±1.3%, 1.5% FS 가 50% Turndown

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		
	Operat	ing 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"= <b>1.33%</b>	0.00375"/0.075"= <b>5.00%</b>	0.0026"/0.075"= <b>3.47%</b>		

<sup>\*</sup> Accuracy : Includes Linearity, Hysteresis, Repeatability

Example 2: FMS Full Span 0.15" w.c. ,

130% 0.2"W.C. Full Span 가 가

Thermal Effect7\  $\pm 0.005\% FS/$  ,  $\pm 0.055\% FS/$  ,  $\pm 0.033\% FS/$  ,  $\pm 0.028\% FS/$ 

가 50% Turndown Thermal Effect Operating Span

	TRANSDU	JCER 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	g Conditions	
(0.15" x 50%)	0.075"WC	0.075"WC	0.075"WC
	104	104	104
	Accuracy at Op	erating 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"= <b>1.33%</b>	0.00375"/0.075"= <b>5.00%</b>	0.0026"/0.075"= <b>3.47%</b>
	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" = <b>0.45%</b>	(1.87%X0.25")/0.075" = <b>6.23%</b>	(1.122%X0.2")/0.075" = <b>2.99%</b>
	Total Accuracy at	Operating Conditions	
(at Operating Span)	1.33% + 0.45% = 1.78%	5.00% + 6.23% = 11.23%	3.47% + 2.99% = 6.46%

Auto Zeroing
Auto Zeroing

Operating

Span

Auto Zeroing