

# Model 261C

## Low Differential Pressure Transducer

Model 261C series inherit the consistent characteristics of high-precision, rapid-response, and low range. Considering the requirement of pharmaceutical plant and clean room for low differential pressure transducer, built-in LCD that meet the industrial applying requirement.

### HVAC Specified

Model 261C, designed specified for HVAC to measures pressure difference or gauge pressure (static pressure). Selectable output signal in 4-20mA, 0-5VDC, or 0-10VDC. Model 261C has conducted temperature compensation circuit to make the temperature range less than  $\pm 0.06\%FS/^\circ C$  (temperature compensation range 5~65 $^\circ C$ ). The excitation voltage is 24VDC, and a 24VAC power supply can be selected for the voltage signal. The Model 261C has a minimum measurement range of 0~25Pa and a standard accuracy of  $\pm 1\%$  FS at room temperature.

### LCD Display Option

Model 261C is available with and without LCD display options. Meet the application requirements of AHU (Air Handling Unit) as well as the pharmaceutical industry.

### Excellent Performance to Price Ratio

Model 261C is widely used in pharmaceutical workshops, clean electronic workshops, and infectious disease wards with its excellent cost performance.



- HVAC Applications
- Range as low as 0 ~ 25Pa
- Built-in LCD Display

### Features

- SETRA variable capacitor sensing technique
- Stainless Steel sub arc welding sensing element
- LCD Display
- Die-Cast Aluminum Enclosure, IP65 protection
- Standard Accuracy  $\pm 1\%$ FS
- Optional High Accuracy  $\pm 0.4\%$ ,  $\pm 0.25\%$ FS

### Applications

- Pharmaceutical Plant
- Clean Room
- Bio-Safety Labs
- Infectious Disease Room
- Stairwell Fire and Smoke Protection

# Model 261C



## Low Differential Pressure Transducer

### Ordering Information

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Model	Pressure Range			Type		Output		Accuracy		Fitting		Display	
	In.WC		Pascals	D	Unidirectional	11	4~20mA	C	±1% FS	F1	3/16" Barbed Brass	D	LCD
261C				B	Bidirectional	2D	0~5VDC	E	±0.4% FS	F2	8mm Barbed Brass	N	None
	0R1W	0~0.1	±0.1	025L	0~25	±25							
	R25W	0~0.25	±0.25	050L	0~50	±50	2E	0~10VDC	F	±0.25% FS			
	0R5W	0~0.5	±0.5	100L	0~100	±100			D	±0.5% FS			
	001W	0~1	±1	250L	0~250	±250			G	±1.0% FS			
	2R5W	0~2.5	±2.5	500L	0~500	±500							
	005W	0~5	±5	10CL	0~1000	±1000							
	010W	0~10	±10	25CL	0~2500	±2500							
	025W	0~25	±25	50CL	0~5000	±5000							
	050W	0~50	±50	10KL	0~10000	±10000							
	100W	0~100		25KL	0~25000								

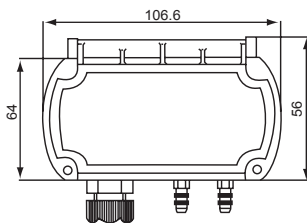
Optional Accuracy Codes F, E, H, G include calibration certificate

Contact Setra for Special Fitting

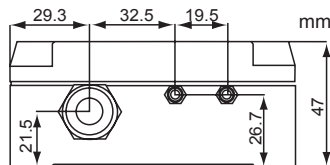
### Specifications

Performance Data			Physical Description			Electrical Data (Voltage)	
Accuracy RSS <sup>1</sup> (at constant Temp)	Code C/G	Code E	Code F	Case	Die-Cast Aluminum Enclosure	Circuit	3-Wire
Non-linearity, BFSL	± 1.0%FS	± 0.4%FS	± 0.25%FS	Electrical Connection	PG-9 Cable Locking Device	Output <sup>5</sup>	0 ~ 5 VDC6 / 0 ~ 10 VDC <sup>6</sup>
Hysteresis	± 0.98%FS	± 0.33%FS	± 0.20%FS	Pressure Fittings	3/16" O.D Barbed Brass pressure fitting for 1/4" push-on tubing.	Excitation (0 ~ 5 VDC)	9 ~ 30 VAC / 12 ~ 42 VDC
Non-Repeatability	± 0.10%FS	± 0.10%FS	± 0.10%FS	Zero and Span Adjustments	Accessible Inside of Case	Excitation (0 ~ 10 VDC)	12 ~ 30 VAC / 12 ~ 42 VDC
	± 0.05%FS	± 0.05%FS	± 0.05%FS	Weight (Approx)	347.5g	Bidirectional output at zero pressure	2.5VDC (0~5VDC) / 5VDC (0~10VDC)
				Mounting	φ 3mm bolt or countersunk head bolt (option)	Output impedance	100 Ω
Thermal effects <sup>2</sup>			Environmental Data			Electrical Data (Current)	
Compensation Range	+5~-+65°C		Operating <sup>4</sup>	-18~65°C		Circuit	2-wire
Zero / Span Shift	0.06 %FS/°C		Storage	-54~82°C		Output <sup>7</sup>	4~20mA <sup>8</sup>
Max Linear Pressure	70 KPa		Pressure Media			External load	0-800Ω
Overpressure	Max 10Psi ( Related to the range )		Clean air or similar non-conducting gases			Min. loop supply voltage (VDC)	9+0.02x (resistance of receiver plus line)
Warm up drift	0.1% FS/ year		1 RSS of Non-Linearity, Hysteresis, and Non-Repeatability			Max. loop supply voltage (VDC)	30+0.004x (resistance of receiver plus line)
Error caused by installing position (Normal Installation position is in vertical)	Range	Zero Drift ( %FS/G )	2 Units calibrated at nominal 21°C, maximum thermal error computed from this datum.			5 Calibrated into a 50KΩ load, operable into a ≥ 5KΩload	
	0~25Pa	2.1	3. Unit is factory calibrated at 0g effect in the vertical position.			6 Zero output factory set to within ±50mV, ( Code D/E/F accuracy at ±25mV)	
	0~250Pa	0.22	4 Operating temperature limits of the electronics only. Pressure media temperatures may be considerably higher.			7. Calibrated at factory with 24 VDC loop supply voltage and 250Ωload	
	0~1250Pa	0.14				8. Zero output factory set to within ±0.16mA, ( Code D/E/F accuracy at ±0.08mA)	
	0~7500Pa	0.06					

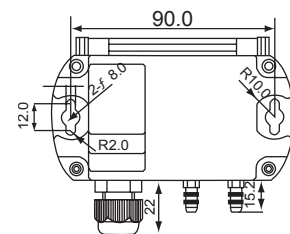
### Dimensions



Front view



Side view



Bottom view

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