PRESSURE

REMOTE MOUNTED DIFFERENTIAL PRESSURE TRANSMITTER **231RS SERIES**

DESCRIPTION

The Setra 231RS Series Multi-Range Differential

Pressure Transmitter is ideal for monitoring pumps and load differential pressures in HVAC systems and processes where local indication is needed.

Setra's 231RS Series with remote sensors reduces labor, materials, and time. The sensors are installed directly into the pipe and electrical connection is made between the remote sensors and the Model 231RS via cables or conduit. This reduces labor cost by one-third and the cost of copper to connect the pressure transducer to the pipe. Startup time is reduced since purging air out of the lines is not necessary.

The Multi-Sense[®] Model 231 wet-to-wet differential pressure transducer's all inclusive design provides users with field accessible ranging, choice of output and field zeroing.

FEATURES

- Remote sensors
- Conduit and cable versions
- Field selectable output 4 to 20 mA, 0 to 5, 1 to 5, and 0 to 10 VDC
- · Field accessible push-button zero and remote zero
- Jumper selectable port swap
- Optional LCD display
- All cast aluminum, NEMA4 rated housing

APPLICATION

- Energy management systems
- Process control systems
- · Flow measurement of various gases or liquids

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· Liquid level measurement of pressurized vessels

SPECIFICATIONS

Supply Voltage	1P	Max Operating Pressure	e (Proof)		
Current output	15-30 VDC @20mA		RS1=750 psid, RS2=750 psid,		
Voltage output	15-30 VDC @8 mA,		RS3=1000 psid		
	15 to 30 VAC @40mA		RS4=1500 psid, RS5=2000 psid		
Signal Output (Volts,Current)		Operating Temperature	-4° to 185°F (-20° to 85°C)		
	4-20mA loop, 0-10VDC or	Compensated Temp Range			
	(0,1)-5VDC Selectable		32° to +130°F (0° to 54°C)		
Min Voltage Output Impedance 🏑		Operating Humidity	10 to 95% Non-condensing		
	<\>>5KΩ	Wetted Parts	17-4 stainless steel		
Max Current Output Impedance		Media Compatibility	Liquid/Gasses compatible w/17-4 SS		
	<450Ω @24VDC	Process Connection	1/4" 18 NPT		
Accuracy	±1.0% Range A-C, ±2.0% Range D	Wiring Terminations	Terminals- 3 signal, 8 sensor,		
Sensor Type	Piezoresistive		2 Remote zero		
Adjustments (Z/S)	Push Button or remote contact Zero	Mounting	Tabs with 2, 0.156" holes for #6 screws		
Normal Measurement R	lange	Enclosure Rating	Powder coated aluminum, NEMA 4,		
1c-	±0 to 250 psid selectable with range		w/o display		
	(See ordering)	Dimensions	5.1"W x 6.0"H x 2.0"D,		
Display	Opt-LCD, 4 digits, 0.526" high,		(13 x 15.2 x 5.1 cm)		
	WC/kPa switch	Weight	1.5 lbs (0.68kg)		
Overpressure (Burst)	2 x Full Scale for RS(1-5)	Approvals	CE, RoHS		
	2	Warranty	1 year		





Model 231RS



NEXT DAY SHIPPING AVAILABLE ON IN-STOCK ORDERS.

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OPERATION

Pressure range selection:

- 1. Examine the pressure application and determine the highest system line pressure.
- 2. Determine the differential pressure being measured.
- 3. Find the maximum line pressure in the table on the right that is higher than your highest system line pressure.
- 4. Verify that your DP falls within the selectable ranges in that row.
- 5. Follow that row to the left and select that range code.

Example:

Highest System Line Pressure: 125 psig

Differential Pressure Measured: 75 psid

"Max Line Pressure" Higher than System Line Pressure: 150 psid (75 psid DP falls within ranges in this row) Select Range Code: RS4

	MODEL	DESCRIPTION				
	231	WET/WET DIFFERENTIAL REMOTE SENSING PRESSURE TRANSDUCER				
		PRESSUR	PRESSURE RANGE CODE *			
		RS1 5, 10, 25, 50 psid, ±5, ±10, ±25, ±50 psid				
RS2 7.5, 15, 37.5, 75 psid, ±7.5, ±15, ±37.5, ±75 psid						
		RS3	tS3 10, 20, 50, 100 psid, ±10, ±20, ±50, ±100 psid			
		RS4 15, 30, 75, 150 psid, ±15, ±30, ±75, ±150 psid				
		RS5 25, 50, 125, 250 psid, ±25, ±50, ±125, ±250 psid				
		PRESSURE CONNECTION				
			3M	1/4-18 NP	PT Male Remote Sensor (Conduit Version)	
			4M 1/4-18 NPT Male Remote Sensor (Cable Vers		PT Male Remote Sensor (Cable Version)	
				DISPLAY	OPTION	_
				N	No display	
				D	Display	_
					CABLE LENGTH	
					10 Sensors cableling length 10 ft	_
					20 Sensors cableling length 20 ft	_
					30 Sensors cableling length 30 ft	
		Not	e: Line pres	sure deterr	nines selection of range code.	