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

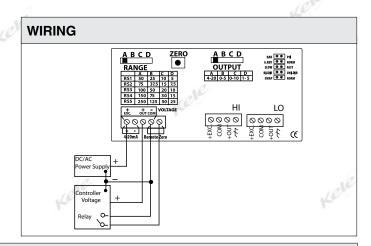
SPECIFICATIONS

Supply Voltage	10	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 F	Range	Enclosure Rating	Powder coated aluminum, NEMA 4,	
Kee	± 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	
		Warranty	1 year	
		-		
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Model 231RS

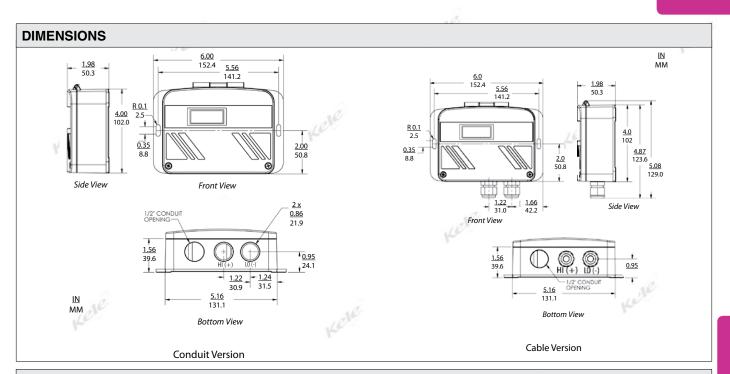


NEXT DAY SHIPPING AVAILABLE ON IN-STOCK ORDERS.

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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	DESCRIPT	ION			
	231G	G WET/WET DIFFERENTIAL REMOTE SENSING PRESSURE TRANSDUCER PRESSURE RANGE CODE *			SENSING PRESSURE TRANSDUCER	
		RS1			±10, ±25, ±50 psid	
		RS2		, , ,	±7.5, ±15, ±37.5, ±75 psid	
		RS3			10, ±20, ±50, ±100 psid	
		RS4			15, ±30, ±75, ±150 psid	
		RS5	25, 50, 125, 250 psid, ±25, ±50, ±125, ±250 psid			
			PRESSURE CONNECTION			
			3M		T Male Remote Sensor (Conduit Version)	
					T Male Remote Sensor (Cable Version)	
		DISPLAY OF		DISPLAY		
				N	No display	
				D	Display	
					CABLE LENGTH	_
					10 Sensors cableing length 10 ft	_
					20 Sensors cableing length 20 ft	_
					30 Sensors cableing length 30 ft	_
N	e pressure determ				40 Sensors cableing length 40 ft 50 Sensors cableing length 50 ft	