

PRODUCT DESCRIPTION

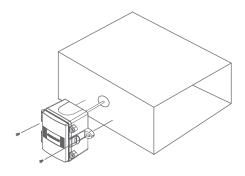
The multi-point rigid duct average temperature transmitter incorporates numerous precision platinum RTD's at equal distances, encapsulated in a 6.00mm (0.236") OD, 304 series stainless steel probe and is available in various lengths. All probes provide excellent heat transfer, fast response, and resist moisture penetration. A transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response is available with various ranges.

TYPICAL INSTALLATION

For complete installation and wiring details, please refer to the product installation instructions.

The rigid duct average type probes are installed in the side of the duct to monitor the average temperature within the duct. Select a probe length that allows the probe to span the duct width. Install the probe in a straight section of duct at a suitable distance downstream from any heating, cooling, or humidification devices.

The enclosure provides mounting tabs for ease of installation.

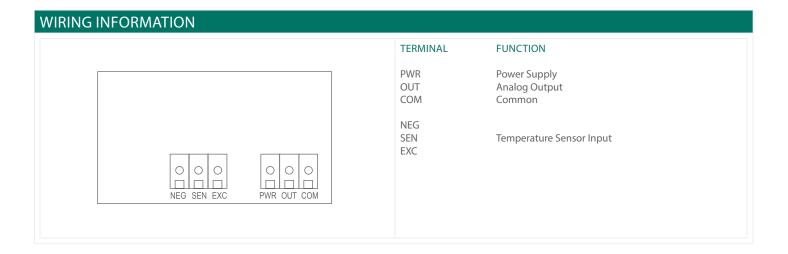


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SPECIFICATIONS			
SENSOR TYPE	1000 Ω platinum RTD		
SENSOR ACCURACY	±0.3°C (±0.54°F) @ 0°C (32°F)		
PROBE SENSING RANGE	-40 to 60°C (-40 to 140°F)		
WIRE MATERIAL	PVC/Kynar, 28 AWG		
PROBE MATERIAL	304 series stainless steel		
PROBE DIAMETER	6 mm (0.236")		
STANDARD LENGTHS	450, 600, 900 mm (18", 24", 36")		
OUTPUT SIGNAL	4-20 mA current loop, 0-5 Vdc, or 0-10 Vdc (factory configured)		
TRANSMITTER ACCURACY	±0.1% of span, including linearity		
OUTPUT DRIVE @ 24 VDC	Current: 600 mA maximum Voltage: 10 KΩ minimum		
MAXIMUM OUTPUT (VOLTAGE)	Limited to <5.5 Vdc or 0-5 Vdc, <10.5 for 0-10 Vdc		
INPUT VOLTAGE EFFECT	Negligible over specified operating range		
PROTECTION CIRCUITRY	Reverse voltage protected and output limited		
AMBIENT OPERATING RANGE	-40 to 60°C (-40 to 140°F), 5 to 95 %RH non-condensing		
ENCLOSURE	A: ABS, UL94-V0, IP65 (NEMA 4X) E: Same as A, with thread adapter (1/2" NPT to M16), and cable gland fitting		
TERMINATION	Screw terminal block (14 to 22 AWG)		
APPROVALS	CE		
PROTECTION CLASS	III		
POWER SOURCE UL	0-5 Vdc: 10-35 Vdc or 10-28 Vac SELV (Class 2) 0-10 Vdc: 15-35 Vdc or 15-28 Vac SELV (Class 2) 4-20 mA: 15-35 Vdc (loop-powered) or 22-28 Vac Limited Energy, <15W		
CONSUMPTION	Current @ 20 mA Voltage @ 5 mA		
EU CONFORMITY	CE		
CERTIFICATION	UL 60730 & CSA E60730		
UL 2043 / CSA / ULC S142 COMPLIANT	Suitable for Use in Air Handling Spaces in Accordance with Section 300.22, (C) of the National Electrical Code		
PURPOSE OF CONTROL	Operating Control		
TYPE OF ACTION	Type 1		
IMPULSE VOLTAGE	330V		
POLLUTION DEGREE	2		
COUNTRY OF ORIGIN	Canada		

NOTE: This product is factory calibrated and any field adjustment will void the warranty.







ORDERING		
PRODUCT	TXDR	Rigid Duct Average Temperature Transmitter
ENCLOSURE	A E	ABS, with hinged and gasketed cover Same as C, with thread adapter and cable gland fitting
SENSOR	12	1000 Ω Platinum, IEC 751, 385 Alpha, thin film
PROBE LENGTH	F G H	450mm (18") 600mm (24") 900mm (36")
ОUТРUТ	A D E	4-20 mA 0-5 Vdc 0-10 Vdc
SCALED RANGE	001 002 006 *	0 to 35°C (32 to 95°F) 0 to 50°C (32 to 122°F) -50 to 50°C (-58 to 122°F) Custom ranges available

PART NUMBER

NOTE: Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.







PS-TXDRXXX-02