

- DUCT MOUNTING
- HIGH TEMPERATURE
- RAPID RESPONSE
- ROBUST CONSTRUCTION
- OUTPUT OPTIONS
- INDICATION OPTIONS



PROCESS RH AND TEMPERATURE TRANSMITTER

SEM165 Series

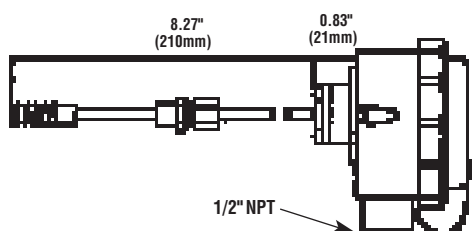
INTRODUCTION

The SEM165 series RH/Temperature Transmitters offer excellent performance for harsh industrial process control and energy management applications.

The sensor's body is made of stainless steel and has an adjustable 1/2" NPT compression fitting. The connection head is rated NEMA 4X.

MECHANICAL DETAILS

Dimensions in inches (mm)



Supplied with a 1/2" NPT Compression Fitting
Stainless Steel Compression Gland

SPECIFICATION @ 68°F

RELATIVE HUMIDITY

	SEM165T/H Capacitive	SEM165T/P Capacitive
Sensor		
Sensor Measuring Range	0/100% RH Wettable	0/100% RH Wettable
Sensor Operating Temperature Range	-40°F to +248°F (-40 to +120°C)	-22°F to +284°F (-30 to +140°C)
Accuracy	±2% RH	±2% RH
Hysteresis	<1.7%	<1%
Response time	<6 seconds	<10 seconds
Step Change T90		
Linearity	±1.5% (0 to 98% RH)	±2.5% (11 to 90% RH)
Pressure	400 PSI max	400 PSI max
Output	4-20 mA 0/100% RH	4-20 mA 0/100%RH

TEMPERATURE (HP Only)

Sensor	Pt100
Accuracy	0.5°F ±0.1% reading
Output	4 to 20 mA (32/212°F)

HEAD ELECTRONICS

Ambient Operating Range	-4°F to 131°F
Supply voltage	5 to 95% RH (non-condensing)
Load	10 to 32V DC (Vs-10)22 = K ohms

APPROVALS

Emissions	BS EN 61326
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ORDER CODE

SEM165T/P -22 to 284°F RH/Temperature

SEM165T/H -40 to 248°F RH/Temperature

Every effort has been taken to ensure the accuracy of this specification, however we do not accept responsibility for damage, injury, loss or expense resulting from errors and omissions, and we reserve the right of amendment without notice.



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