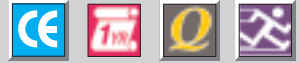


- HUMIDITY & TEMPERATURE
- 4-20mA OUTPUTS
- WALL OR DUCT MOUNTING
- LOCAL DISPLAY OPTION
- NEMA-4X
- ±3 % RH STANDARD
- ±2% RH OPTION



RELATIVE HUMIDITY AND TEMPERATURE TRANSMITTERS

SEM164 Series

INTRODUCTION

The SEM164 series transmitters provides 4-20 mA outputs proportional to temperature and relative humidity. They are suitable for either direct mounting in ducts or onto a flat surface, making them ideally suitable for building energy management applications.

An optional LCD display is available for RH or temperature. A remote display is also available.

The connection head housing is ABS impact resistant material with the sensor tip molded in low moisture absorption polypropylene with a removable PTFE membrane filter in order to achieve fast thermal response while shielding the sensor from dust and grime.

SPECIFICATION @ 68°F

RELATIVE HUMIDITY

Sensor	Capacitive 2% Version	Capacitive 3% Version
Sensor Measuring Range	0 to 100% RH Wettable	10 to 95% RH
Sensor Operating Temperature Range	-40°F to +140°F (-40 to +60°C)	-40°F to +140°F (-40 to +60°C)
Accuracy	±2% RH	±3% RH
Hysteresis	<1.7%	<2%
Response time	<6 seconds	<15 seconds
Step Change T90		
Linearity	±1.5% (0 to 98% RH)	±2% (20 to 95% RH)
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)

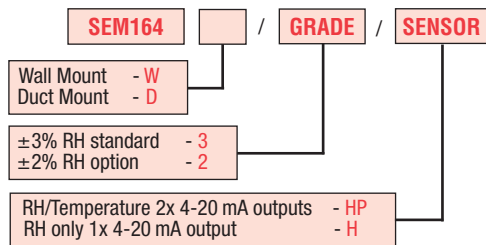
GENERAL

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

APPROVALS

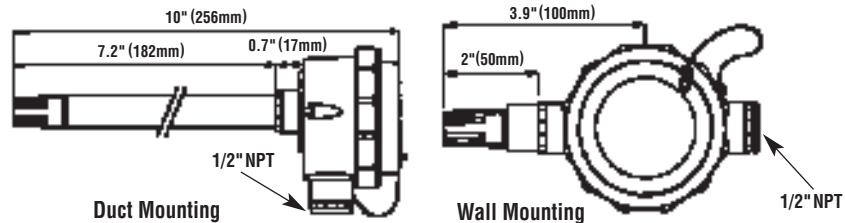
Emissions	BS EN 61326
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ORDER CODE



MECHANICAL DETAILS

Dimensions in inches (mm)



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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