



# SEM104P ANALOGUE IN HEAD TEMPERATURE TRANSMITTER

INPUT		SPECIFICATIONS @20°C
Type/Function	Range/Description	Accuracy/Stability
Pt100, 3 wire	BS EN 60751 DIN43760	$\pm 0.2 \text{ }^\circ\text{C} \pm 0.2 \%$ of reading
Maximum range	(-100 to 600) $^\circ\text{C}$	
Maximum span	500 $^\circ\text{C}$	
Minimum span	25 $^\circ\text{C}$	
Thermal drift	Zero at 20 $^\circ\text{C}$	$\pm 0.01 \text{ }^\circ\text{C}/^\circ\text{C}$

OUTPUT		SPECIFICATIONS @20°C
Type/ Function	Range/Description	Accuracy/Stability/Notes
Two wire current	(4 to 20) mA	(mA output /2000) or 5 uA (Whichever is the greater)
Loop supply	(10 to 30) VDC	SELV
Protection	Reverse connection protected	
Sensitivity		10 uA/V
Loop voltage effect		0.2 uA / V
Maximum output load	$[(V \text{ supply} - 10)/20]$ K $\Omega$	700 $\Omega$ @ 24 V DC
Maximum output		< 30 mA
Thermal drift	Zero drift, 0 % at 20 $^\circ\text{C}$ Span drift, 0 % at 20 $^\circ\text{C}$	$\pm 0.02 \%$ / $^\circ\text{C}$ $\pm 0.005 \%$ / $^\circ\text{C}$
At > 24 V supply use with a minimum 250 $\Omega$ load		

GENERAL		SPECIFICATIONS @20°C
Function	Description	
Response time	< 60 ms to reach 70 % of final value	
Start-up time	< 4 s	
Warm-up time	180 s to full accuracy	
Default configuration	Un-ranged (no links set)	
Add required range to be pre-set to order number		

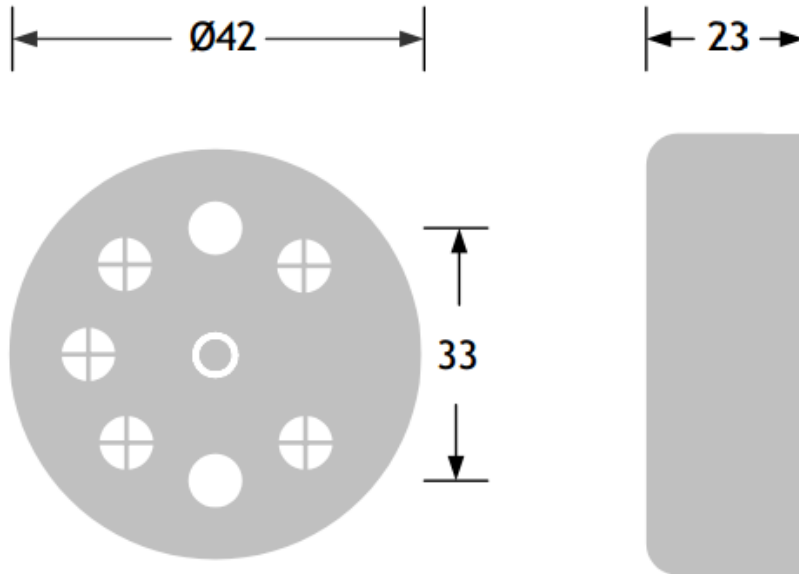
ENVIRONMENTAL	
Function	Description
Ambient temperature	Operating: (0 to 70) $^\circ\text{C}$ Storage: (-40 to 90) $^\circ\text{C}$
Ambient Humidity	Operating/Storage (0 to 90) %RH non-condensing
Protection requirement	>= IP65 recommended

MECHANICAL	
Function	Description
Dimensions	42 mm diameter; 23 mm height
Fixing centres	2 x 5.5 mm holes on 33 mm centres
Weight	25 g approximately

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APPROVALS	
EMC	BS EN 61326: Note - Sensor input wires to be less than 3 m to comply
Ingress protection	BS EN 60529
RoHS	Directive 2011/65/EU Incorporation RoHS 3 amendment directive EU2015/863

## MECHANICAL



Dimensions in mm.

Fixing holes 2 x Ø5.5 mm, on 33 mm centres

<b>ORDER CODE</b>	SEM104P
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ACCESSORIES	
Head options	Please refer to <a href="http://www.status.co.uk">www.status.co.uk</a>
Probe options	Please refer to <a href="http://www.status.co.uk">www.status.co.uk</a>
RMK/3-T	"Top hat" DIN rail profile mounting clip

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To maintain full accuracy, annual calibration is recommended. Contact [support@status.co.uk](mailto:support@status.co.uk) for details.