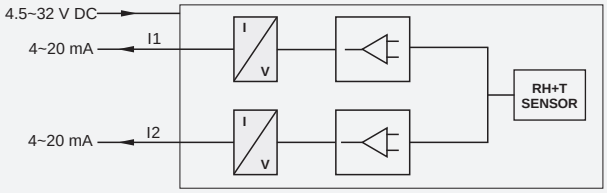
2-WIRE, FLP RH + TEMPERATURE TRANSMITTER — SC806

2 x 4~20 mA OUTPUTS, DUCT-MOUNT, IP66

- 2 x 4~20 mA outputs
- True 2-wire operation
- Accuracy : ± 2 %RH, ± 0.3 °C
- Software calibration - no trimpots
- 4.5~32 V DC loop supply

CONNECTION DIAGRAM



- SC806 is a microcontroller based, high performance 2-wire RH+T transmitter.
- It can be factory configured for 2 x RH outputs, 2 x Temperature outputs, or 1 x RH + 1 x T output.
- The heavy-duty metal tube construction and IP66 protection allows use in rough industrial environments.
- The loop drop of 4.5 V is the lowest amongst such products.
- The RH+T sensor is integrally fitted to enclosure.

SPECIFICATIONS

All specifications at ambient of 25 °C, unless specified otherwise

INPUT

RH + T signals from integral sensor

Range limits	
Normal	0~100% RH, non-condensing -20~100 °C (-4~158 °F)
Maximum	-40~120 °C (-40~248 °F) (See fig.1)
Standard Calibration	0~100% RH : : 4~20 mA, 0~50 °C : : 4~20 mA For other calibration ranges eg. 25~95% RH & 0~75 °C please specify at the time of ordering

MONITORING

Sensor break detection	
Upscale current	~22 mA
Downscale current	~3.9 mA

OUTPUTS

Current output	
Output1	2-wire, 4~20 mA (RH or T)
Output2	2-wire, 4~20 mA (RH or T)
Permissible load	800 Ω @ 24 V DC, 20 mA (See fig.2)
Current limit	~22 mA

ACCURACY

Linearity & calibration	± 2% RH, ± 0.5 °C
Temperature effect on accuracy	± 0.5% of span / 25 °C
Supply voltage effect	± 0.002% of span / V
Supply ripple effect, 50/60 hz, 5 Vp - p	± 0.005% of span

POWER SUPPLY

Supply voltage	4.5~32 V DC

AMBIENT-TEMPERATURE, HUMIDITY

Temperature, storage	-25 to +70 °C
Temperature, operation	-20 to +70 °C
Relative humidity	0 ~ 100% RH

MECHANICAL

Dimensions	See fig. 3
Mounting	Duct mount
Process Connection	½" BSP adjustable compression fitting

MOC

Sensor Head	LM6 Aluminium Alloy
Sensor Tube	SS304
Filter	Sintered bronze, 60 µm

CERTIFICATION

Flameproofness	For gas groups I, IIA & IIB
Protection	IP66 (sensor head)

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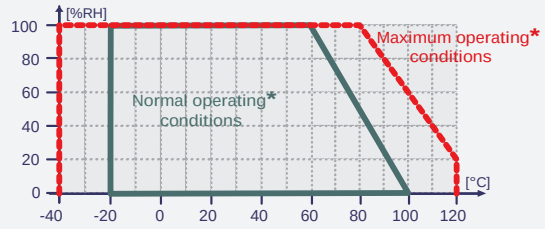
Fig 1



* Normal operating conditions : RH+T limits for continuous safe use
Maximum operating conditions : RH+T limits for use for short periods of time without damage

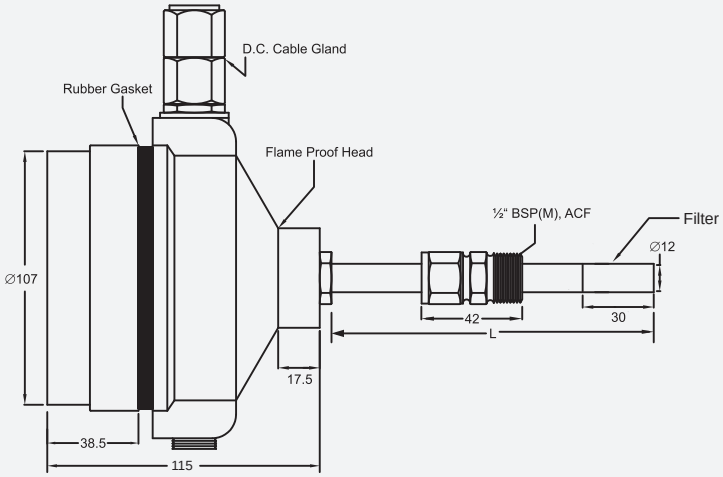
OUTPUT LOAD

Fig 2

R_{LOAD} = (U-4.5)/0.022 Supply voltage U (VDC)

DIMENSIONAL DETAILS

Fig 3



ORDERING INFORMATION

2236	A	B	C	D	E

A	Output1
0	RH
1	T

B	Output2
0	RH
1	T

C	Range
0	0 ~100% RH 0~50°C
1	Non-standard*

* Specify range for Humidity & Temperature

D	Immersion Length L in mm (See Fig 3)
0	150
1	300
2	400
3	500
4	600
5	Non-standard#

Specify in mm

E	Sensor Break
0	Upscale (>20mA)
1	Downscale (<4mA)

Product url : www.radix.co.in/new.htm

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