

2 x 4 DIGIT LED DISPLAY



- 2 x 4~20 mA outputs
- Accuracy : ± 2% RH, ± 0.3 °C
- Software calibration - no trimpots
- Low loop drop : 11.5~32 V DC loop supply
- IP66, rugged construction
- Surface mount

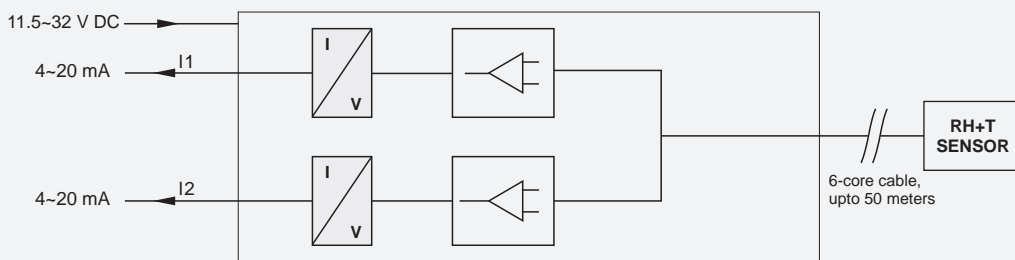
SC804 is a microcontroller based user programmable high performance 2-wire RH+T transmitter for use in hazardous environments. Its high reliability industrial design offers some unique functions.

SC804 has an integral dual 4-digit LED display, which enhances utility greatly and also gives the user flexibility to program SC804 for his application.

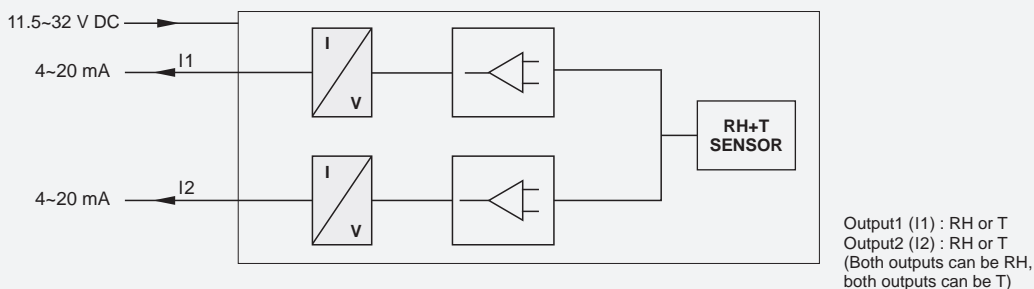
The RH+T sensor can be integral (inside/fitted to) enclosure, or remote (SHT20, etc).

CONNECTION DIAGRAM

SC804 WITH REMOTE SENSOR



SC804 WITH INTEGRAL SENSOR



RH+T - RANGE LIMITS

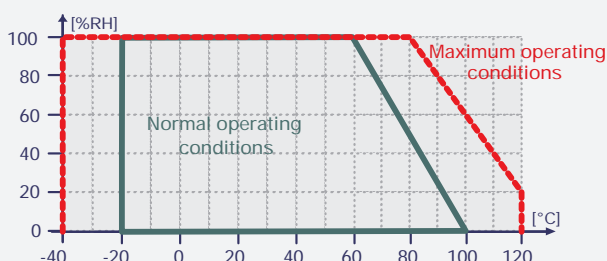


Fig 1

OUTPUT LOAD

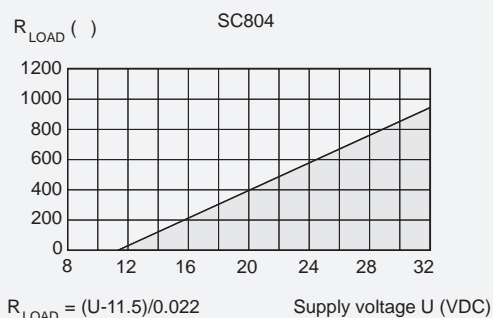


Fig 2

2 x 4 DIGIT LED DISPLAY

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

INPUT	RH + T signals from sensor
RANGE	See Fig1
Integral Sensor	0~100 %RH, non-condensing -20~60 °C (-4 ~ 140 °F)
Remote Sensor	0~100 %RH -40~120 °C (-40 ~ 248 °F)

DISPLAY	2 x 4 digit, 7 - segment 0.56" (14.2 mm), red LED display
Resolution	0.1 or 1

SENSOR Mounting	Integral a) Inside enclosure b) Outside enclosure
Remote	SHT20, SHT30, SHT40
Distance between SC804 & remote sensor	< 50 metres

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

OUTPUTS	
Current	
Output1	2-wire, 4~20 mA (RH or T)
Output2	2-wire, 4~20 mA (RH or T)
Permissible load	800 @ 24 V DC, 20 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	11.5~32 V DC

CALIBRATION	
Zero & span	Through tactile keys & display inside enclosure

AMBIENT-TEMPERATURE, HUMIDITY	
Temperature, storage	-25 to +70 °C

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

ENCLOSURE	
Enclosure	Certified flameproof for gas groups I, IIA, IIB & IIC
Material	Aluminium alloy
Dimensions (in mm)	149(H) x 140(W)
Mounting	Surface mount
Programming	Through tactile keys & display inside enclosure
Protection (instrument)	IP66
Cable entries*	1 x 3/4" ET (Integral sensor) 2 x 3/4" ET (Remote sensor)

* Cable glands to be

PROGRAMMABLE PARAMETERS	
Output type	4~20 mA, 20~4 mA
Output assignment	RH, T
Unit	°C, °F
Resolution	0.1, 1
Digital filter	A, B, C, D, E, F
Output	
Low scale	0~100% RH, -40 ~ 120 °C (40 ~ 248 °F)
Hi scale	0~100% RH, -40 ~ 120 °C (40 ~ 248 °F)

COMPATIBLE REMOTE SENSORS

SHT20	Wall mount, integral cable
SHT30	Wall mount, with connector
SHT40	Duct mount



SHT20



SHT30



SHT40

ORDERING INFORMATION

2221		A	B	C	
A	Sensor	B	Cable length for remote sensor	C	Filter
0	Without sensor	* 0	Not applicable	0	Sintered bronze
1	Integral	1	5 metres	1	SS wiremesh, SS body
2	SHT20	2	10 metres	2	SS wiremesh, nickel plated brass body
3	SHT30	3	15 metres		
4	SHT40	4	25 metres		
		5	35 metres		
		6	50 metres		

* B = 0 if A = 0 or 1

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

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AN ISO 9001:2008 COMPANY

SALES INQUIRIES

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