



- True 2-wire operation
- Unit of measurement : Pa, mmWC, mbar, inWG, inHg, PSI, mmHg
- High accuracy
- Software calibration - no trimpots
- 12~32 V DC loop supply
- User programmable using PC configurator PCC82 connected to USB port of any PC
- Auto-zero adjustment with pushbutton switch
- DIP switches for selection of Unit & Range

SCC503 is a programmable, microprocessor-based, 2-wire, differential pressure transmitter. It features an IP65 enclosure. SCC503 can be easily configured for pressure unit, range, etc.

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

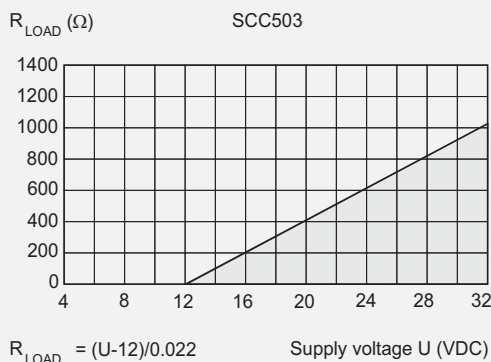
INPUT		CALIBRATION	
Unit of measurement	Pa, mmWC, mbar, inWG, inHg, PSI, mmHg	Zero & span	Using PC Configurator PCC82
Range	See Ordering information	TEMPERATURE, HUMIDITY	
Resolution	See Ordering information	Ambient, storage	-25 ~ +70 °C
OUTPUT		Ambient, operation	-20 ~ +55 °C
Current	4~20 mA	Relative humidity	0 ~ 95% RH, non-condensing
Permissible load	600 Ω @ 24 V DC, 20 mA	MECHANICAL	
Current limit	20~22 mA	Dimensions	See Fig 3 & 4
Response time	<150 mS	Mounting	Wall/Surface/Duct mount
ACCURACY		Cable gland	PG7, suitable for cable dia 3 to 6.5 mm
Linearity & calibration	See Table 1	MOC	
Supply voltage effect	± 0.001% of span / V	Enclosure	ABS plastic
Supply ripple effect, 50/60 hz, 5 Vp - p	± 0.005% of span	Protection	IP65
POWER SUPPLY		PROGRAMMABLE PARAMETERS	
Supply voltage	12 to 32 VDC loop supply	Unit	See Table 1
		Range	See Table 1
		Digital filter	1~10

TABLE 1

UNIT	TYPICAL ACCURACY AT 30 °C (°C / % SPAN)	WORST CASE ACCURACY (°C / % SPAN)	MIN SPAN	RESOLUTION
Pa	± 0.5% ± 2 Pa	± 1.5% of reading ±3 Pa	10% of full scale	1
mmWC	± 0.5% ± 0.2 mmWC	± 1.5% of reading ±0.3 mmWC	10% of full scale	0.1
mbar	± 0.5% ± 0.02 mbar	± 1.5% of reading ±0.03 mbar	10% of full scale	0.01
inWG	± 0.5% ± 0.008 inWG	± 1.5% of reading ±0.012 inWG	10% of full scale	0.01
PSI	± 0.5% ± 0.0003 PSI	± 1.5% of reading ±0.00045 PSI	10% of full scale	0.001
inHg	± 0.5% ± 0.0007 inHG	± 1.5% of reading ±0.0008 inHG	10% of full scale	0.001
mmHg	± 0.5% ± 0.016 mmHG	± 1.5% of reading ±0.024 mmHG	10% of full scale	0.01

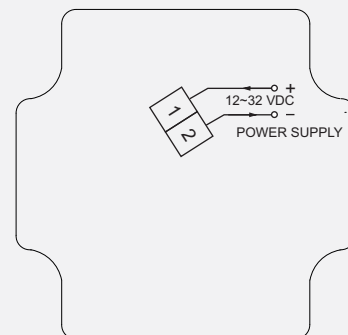
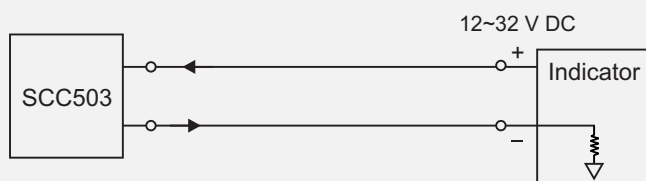
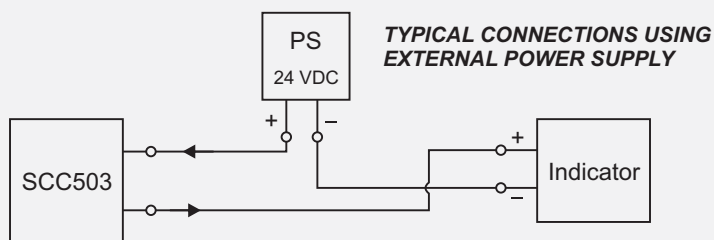
OUTPUT LOAD

Fig 1



CONNECTION DIAGRAM

Fig 2



PCC82 - PC CONFIGURATOR FOR SCC503

SCC503 can be configured using the PC Configurator PCC82. This can be connected to the USB port of any computer. PCC82 is supplied with an installable software on 1 CD. PCC82 is to be ordered extra.



PCC82 - V711.1 PC Configurator For SCC503 Pressure Transmitter - Advance Version

radix®

CONFIGURATION | CALIBRATION | ADVANCED | README

UNIT FOR UPPER DISPLAY

Pa
 mmH2O
 mBar
 Inwc
 mmHG
 PSI
 InHg

INPUT RANGE

Lower Value: mmH2O
 Upper Value: mmH2O
 Adjust Adjust

Range Limits

mmH2O mmH2O
 Low High

OUTPUT TYPE

4-20 mA
 20-4 mA

LOCK DIP SWITCHES
 ON
 OFF

LOCK AUTO ADJUST KEY
 ON
 OFF

ZERO CORRECTION (BIAS)

mmH2O
 Adjust

Permitted Values

mmH2O mmH2O
 MIN MAX

LOWER DISPLAY SELECTION

Unit for upper display
 Output Current

DIGITAL FILTER

Off Max

0 1 2 3 4 5 6 7 8 9 10

PRESSURE

mmH2O

OUTPUT

mA

DIMENSIONAL DETAILS

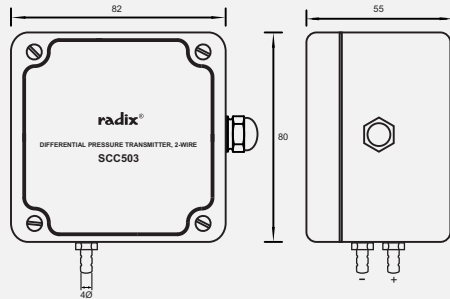


Fig 3

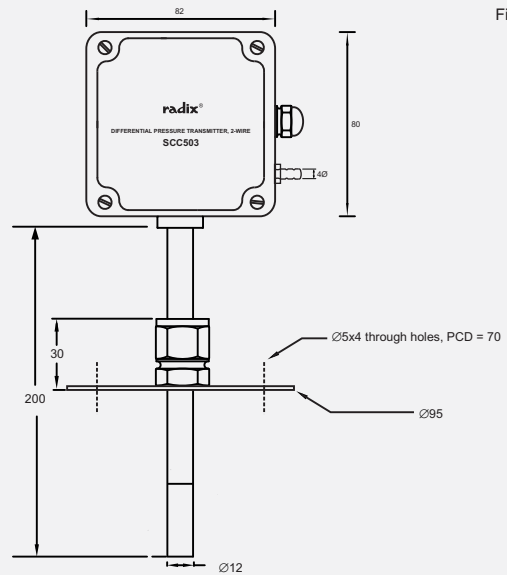


Fig 4

ORDERING INFORMATION

ORDER CODE	
2381	A

Duct Mount

A	Range	
01	-10.0~10.0 mmWC	
02	-100.0~100.0 mmWC	Default Order Code
03	-199.9~199.9 mmWC	

Ordering Options

The following ordering options are available on request. Minimum order quantity and/or minimum order value may apply.

	Option details
1.	Customer specified range
2.	Customer specified unit (Pa, mmWC, mbar, inWG, PSI, inHg, mmHg)

Note : Any non standard range, eg -50~400 Pa, should be specified when ordering.

User can also select range and unit using PC configurator PCC82.

ORDER CODE	
2389	A

Surface / Wall Mount

A	Range	
01	-10.0~10.0 mmWC	
02	-100.0~100.0 mmWC	Default Order Code
03	-199.9~199.9 mmWC	

Ordering Options

The following ordering options are available on request. Minimum order quantity and/or minimum order value may apply.

	Option details
1.	Customer specified range
2.	Customer specified unit (Pa, mmWC, mbar, inWG, PSI, inHg, mmHg)

Note : Any non standard range, eg -50~400 Pa, should be specified when ordering.

User can also select range and unit using PC configurator PCC82.

PC CONFIGURATOR - PCC82

ORDER CODE 2302

CONFIGURATION USING DIP SWITCHES

Using the DIP switches in the instrument, the user can set the range, unit and Full-scale / Centre Zero output.

For Order Code 2381 01, DIP switches are not functional.

Unit Setting

Configuration	Pa	mmWC	mbar	inWG	mmHg	PSI	inHg
Combination (DIP switch 1)							

Measuring Range Setting

Order Code	Unit	Combination (DIP switch 2)					RANGES
		1	2	3	4	5	
2381 02	Pa	100	250	500	750	1000	
	mmWC	10.0	25.0	50.0	75.0	100.0	
	mbar	1.00	2.50	5.00	7.50	10.00	
	inWG	0.40	1.00	2.00	3.00	4.00	
	mmHg	0.80	2.00	4.00	6.00	8.00	
	PSI	0.015	0.038	0.075	0.113	0.150	
2381 03	inHg	0.029	0.073	0.145	0.218	0.290	
	Pa	200	750	1000	1500	2000	
	mmWC	20.0	75.0	100.0	150.0	200.0	
	mbar	2.00	7.50	10.00	15.00	20.00	
	inWG	0.80	2.00	4.00	6.00	8.00	
	mmHg	1.60	4.00	8.00	12.00	16.00	
PSI	0.030	0.075	0.150	0.225	0.300		
inHg	0.058	0.145	0.290	0.435	0.580		

Standard Range / Centre Zero Setting

Configuration	Full Scale	Centre Zero
Combination (DIP switch 2)		

Output Setting

Configuration	4~20 mA	20~4 mA
Combination (DIP switch 1)		



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