



**Concentric Technology Solutions Inc**

Testing Solutions for the Wireless Industry

# TC-5901C Pneumatic Shield Box



## Features

- Reliable High RF shielding up to 6 GHz owing to simple up-down lid motion
- Pneumatic control of lid open-close and optional automatic test fixture motions
- EMI filters on all data ports and power line
- Manual or remote operation(RS-232C)
- Modular I/O design for possible customization of data and RF connection
- Fixture control air outputs for custom test fixture
- Red and Green LED for Pass/Fail indication
- Dual pressure control and Lid Down Sensor for safety
- CE compliant : EN 292-1:1991, EN 292-2:1991/A1:1995, EN 983:1996, EN 1050:1996, EN 60204-1:1997

*SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE*

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## Specifications

### Mechanical Specification

Line voltage	100 to 240 VAC, 50/60 Hz, 15 watt max.
Data line capacity	100 VDC, 3 Amps max
Remote control	RS-232C, 3 wire, DB9(p)
Air connection	
Main connector	6 mm OD hose, one-touch push-on fitting
Fixture control connector	4 mm OD hose, one-touch push-on fitting
Input air pressure	5 to 10 bar
Dimension	
Inside	408(W) x 218(D) x 135(H) mm
Outside	459(W) x 300(D) x 302(H) mm, lid closed. 449(H) mm, lid open
Weight	approx. 19 kg
*Packing	
Size	610 (W) x 425(D) x 440(H) mm
Weight	approx. 21 kg

\*The size or weight of a package may vary on how to pack a package.

### Typical RF Shielding

The shield effectiveness below is measured when the blank panel is mounted; other I/O interface panel results a different shielding effectiveness of the shield box.

100 to 2000 MHz	> 70 dB
2000 to 3000 MHz	> 60 dB
3000 to 6000 MHz	> 50 dB

## Ordering Information

Order Number	Description
	<b>Pneumatic Shield Box (including accessories below)</b>
	Operating Manual
	Test Report
TC-5901C	Power Cable, 220 V, 1 pc
	DATA, DB9(s) –DB9(s) 2 m, 1 pc
	Lid Stopper, 1 pc
	SS-402, N(m) to N(m) 1 m, 1 pc
	Hand Valve, 1 pc

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## I/O Interface

Customized I/O Interface panels are available. Please contact us for more information.

I/O Interface	Order Number	Typical Data Rate / Line Voltage	*Typical Shielding
 DB25, 1000 pF Pi Filter	3409-0009-1	3 Mbps	>70 dB from 0.1 to 2 GHz >60 dB from 2 to 3 GHz >55 dB from 3 to 6 GHz
 DB25, 100 pF Pi Filter	3409-0014-1	10 Mbps	>70 dB from 0.1 to 2 GHz >60 dB from 2 to 3 GHz >55 dB from 3 to 6 GHz
 DB9, 1000 pF Pi Filter	3409-0008-1	3 Mbps	>70 dB from 0.1 to 2 GHz >60 dB from 2 to 3 GHz >55 dB from 3 to 6 GHz
 DB9, 100 pF Pi Filter	3409-0010-1	10 Mbps	>70 dB from 0.1 to 2 GHz >60 dB from 2 to 3 GHz >55 dB from 3 to 6 GHz
 USB A(p) 2.0, 10 pF Pi Filter	3409-0018A-3	480 Mbps	>60 dB from 0.1 to 6 GHz
 RJ-45, 10 pF Pi Filter	3409-0022A	250 Mbps	>60 dB from 0.1 to 3 GHz
 DC Power Adaptor, Jack Type	3409-0004A	50 VDC, 3 Amps max	>70 dB from 0.1 to 2 GHz >60 dB from 2 to 3 GHz >55 dB from 3 to 6 GHz
 DC Power Adaptor, Banana Jack Type	3409-0005A	50 VDC, 50 VDC, 10 Amps max	>70 dB from 0.1 to 2 GHz >60 dB from 2 to 3 GHz >55 dB from 3 to 6 GHz
 AC Power Adaptor		250 VAC, 7 Amps max	>70 dB from 0.1 to 2 GHz >60 dB from 2 to 3 GHz >55 dB from 3 to 6 GHz

\*Each shielding effectiveness is measured when each I/O interface panel, which is shown above, is mounted.

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