

Concentric Technology Solutions Inc

Testing Solutions for the Wireless Industry

TC-5922AP Pneumatic Shield Box





Features

- High RF Shielding
- Pneumatic control of lid open-close and optional test fixture motions
- EMI filters on all Data and DC lines
- Easily customizable to meet various test needs
- Red and Green LED's for Pass/Fail indication
- RS-232C Remote Control

Specifications

Mechanical Specifications

RF Connectors without I/O interface panel			
	two(2) N(f) outside and SMA(f) inside		
Line voltage			
	DC 24 V, Max. 2 A		
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	296(W) x 435(D) x 230(H) mm		
Outside	429(W) x 601(D) x 330(H) mm, lid closed. 623(H) mm, lid open		
Weight			
	approx. 25 kg		
*Packing			
Size	620(W) x 800(D) x 530(H) mm		
Weight	approx. 29 kg		
*The size or weight of a package may vary on how to pack a package.			

Typical RF Shielding

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

Frequency	Shielding effectiveness (dB)		
100 to 2000 MHz	> 70 dB		
2000 to 3000 MHz	> 70 dB		
3000 to 6000 MHz	> 60 dB		

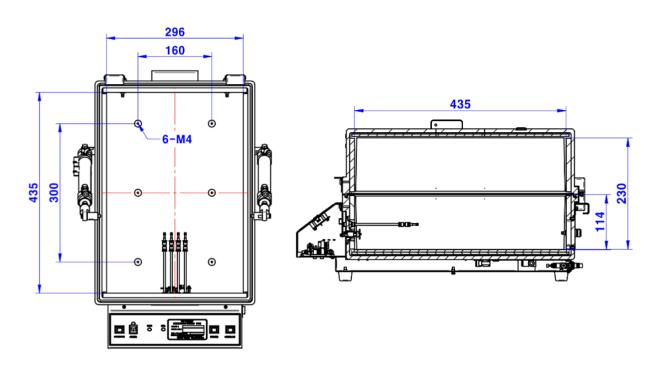
*SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE



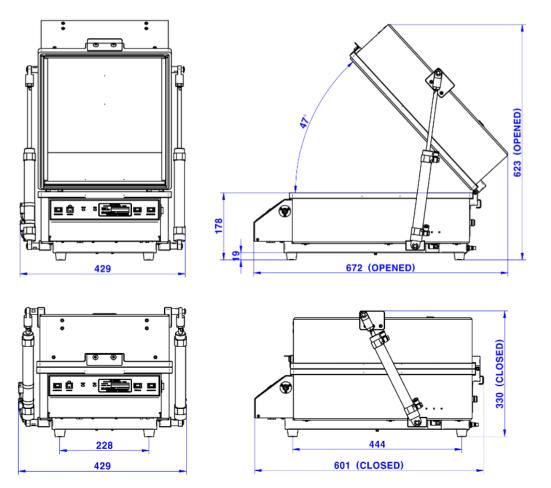
TESCOM TC-5922AP Pneumatic Shield Box Data Sheet

Dimensions

TC-5922AP Inner Dimension



TC-5922AP Outer Dimension



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TESCOM TC-5922AP Pneumatic Shield Box Data Sheet

Ordering Information

Order Number	Description
TC-5922AP	Pneumatic Shield Box (including accessories bellow)
	Test Report
	RF Cable, RG-400S, N(m) to N(m) 1 m, 1 pc
	DATA Cable, DB9(p) to DB9(s) 2 m, 1 pc
	Air Coupler, 1pc
	Switching Power Supply, 1 pc
	Box Remote Switch, 1 pc

Pre-Configured I/O Interface Panel

I/O Interface Panel	Order Number	Configuration
Data Interface Panel	M591689A	 one(1) DB25(p) outside and DB25(s) inside, 100 pF Pi filter one(1) DB9(p) outside and DB9(s) inside, 100 pF Pi filter two(2) N(f) outside and SMA(f) inside two(2) USB 2.0 outside and inside
Data Interface Panel	M5916103A	 four(4) SMA(f) outside and SMA(f) inside one(1) USB 2.0 outside and inside two(2) RJ-45 outside and inside one(1) AC power Adapter
	M5916114A	 one(1) DB37(p) outside and DB37(s) inside, 1000 pF Pi filter six(6) SMA(f) outside and SMA(f) inside two(2) USB 3.0 outside and inside
Data Interface Panel		

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Custom I/O Interface Panel

• Customized I/O Interface panels are available. Please contact Tescom sales team or your local distri butor.

I/O Interface	Order Number	Typical Data Rate / Line Voltage	*Typical Shielding
ASDODS .	3409-0012-1	3 Mbps / 100 VDC,	>70 dB from 0.5 to 2 GHz
· Control of the control of		5 Amps max	>80 dB from 2 to 3 GHz
DB37, 1000pF pi Filter			>70 dB from 3 to 6 GHz
and the control of th	3409-0009-1	3 Mbps / 100 VDC,	>70 dB from 0.5 to 2 GHz
		5 Amps max	>80 dB from 2 to 3 GHz
DB25, 1000pF pi Filter			>70 dB from 3 to 6 GHz
MODI	3409-0014-1	10 Mbps / 100 VDC,	>50 dB from 0.5 to 2 GHz
0		5 Amps max	>60 dB from 2 to 3 GHz
DB25, 100pF pi Filter			>60 dB from 3 to 6 GHz
Tarin .	3409-0008-1	3 Mbps / 100 VDC,	>70 dB from 0.5 to 2 GHz
The state of the s		5 Amps max	>80 dB from 2 to 3 GHz
			>70 dB from 3 to 6 GHz
DB9, 1000pF pi Filter			
The same of the sa	3409-0010-1	10 Mbps / 100 VDC,	>50 dB from 0.5 to 2 GHz
· Care		5 Amps max	>60 dB from 2 to 3 GHz >60 dB from 3 to 6 GHz
DB9, 100pF pi Filter			700 db Holli 3 to 6 GHZ
ALCO IN	3409-0018A-3	480 Mbps / 5 V, 500 mA /	>60 dB from 0.5 to 2 GHz
		Max Current: 5A	>70 dB from 2 to 3 GHz
			>70 dB from 3 to 6 GHz
USB 2.0 Filter			
	3409-0042A-1	5000 Mbps / 5 V, 900 mA /	>70 dB from 0.5 to 2 GHz
		Max Current: 1.5 A	>70 dB from 2 to 3 GHz
			>55 dB from 3 to 6 GHz
USB 3.0 Filter(Active)			
	3409-0022A	1 Gbit/s Copper-Line	>60 dB from 0.5 to 2 GHz
		Ethernet (1000 BASE-T)	>70 dB from 2 to 3 GHz
RJ-45 Filter			>70 dB from 3 to 6 GHz
	3406-0004A	50 VDC,	>70 dB from 0.5 to 2 GHz
		3 Amps max	>80 dB from 2 to 3 GHz
			>80 dB from 3 to 6 GHz
DC Power Adaptor,			

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I/O Interface	Order Number	Typical Data Rate / Line Voltage	*Typical Shielding
DC Power Adaptor, Banana Jack Type	3406-0005A 3406-0006A	50 VDC, 10 Amps max	>70 dB from 0.5 to 2 GHz >80 dB from 2 to 3 GHz >80 dB from 3 to 6 GHz
AC Power Adaptor	3103-0009A	250 VAC, 7 Amps max	>70 dB from 0.5 to 2 GHz >80 dB from 2 to 3 GHz >80 dB from 3 to 6 GHz
RF, N-SMA Connector	3408-0038		>60 dB from 0.5 to 2 GHz >70 dB from 2 to 3 GHz >70 dB from 3 to 6 GHz
RF, SMA-SMA Connector	3408-0039		>60 dB from 0.5 to 2 GHz >70 dB from 2 to 3 GHz >70 dB from 3 to 6 GHz

- Each shielding effectiveness is measured when each I/O interface panel, which is shown above, is mounted.
- Above data was measured by Tescom, The Shielding Effectiveness might be different based on the measuring method and condition.
- This data has been measured under the condition that the cables are not connected to each filters. When the cables are connected it can affect the shielding performance.

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