# TC-5910DP 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
- RS-232C Remote Control



## **Specifications**

Line voltage	DC 24 V, Max. 2 A	
Remote control	RS-232C, 3 wire, DB9(s)	
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	142(W) x 243(D) x 139(H) mm	
Outside	218(W) x 375(D) x 195(H) mm, lid closed. 360(H) mm, lid open.	
Weight	approx. 7 kg	
*Packing		
Size	370(W) x 460(D) x 280(H) mm	
Weight	approx. 8 kg	

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

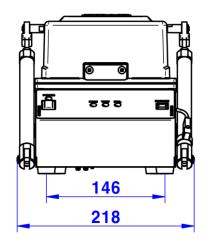
#### **Typical RF Shielding**

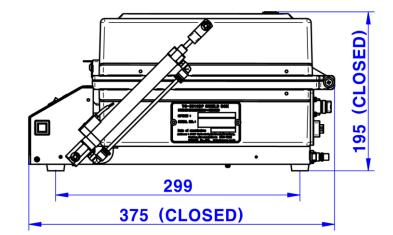
The shielding effectiveness below is measured when the blank panel is mounted; other I/O interface panel results a different shielding effectiveness of the shield box.

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

## Dimensions

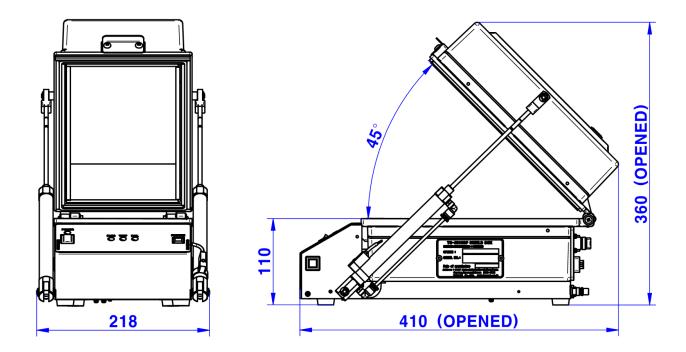
• TC-5910DP Outer Dimension (WxDxH) : 218(W) x 375(D) x 195(H) mm



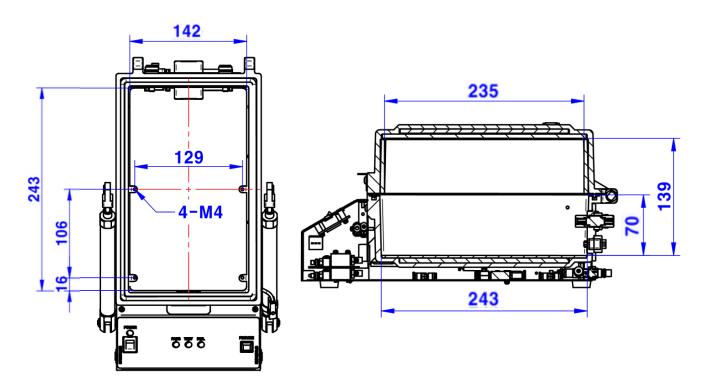


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• TC-5910DP Inner Dimension (WxDxH) : 142(W) x 243(D) x 139(H) mm



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# **Ordering Information**

Order Number	Description	
	Pneumatic Shield Box (including accessories below)	
	Test Report	
TC-5910DP	RF Cable, SS-402, N(m) to N(m) 1 m, 1 pc	
	RS-232C Cable, DB9(p) to DB9(s) cable 2 m, 1 pc	
	Air Coupler, 1 pc	
	Switching Power Supply, 1 pc	

### **Pre-Configured I/O Interface Panel**

I/O Interface Panel	Order Number	Configuration	
	M591012B	Two(2) N(f) outside and SMA(f) inside	
Contraction of the second seco	M591012A*	<ul> <li>one(1) DB25(p) outside and DB25(s) inside,</li> </ul>	
		1000 pF Pi filter	
		one(1) USB2.0 outside and inside	
Data Interface Panel			
0	M591016B	• two(2) N (f) ouside and SMA (f) inside	
Contraction of the second s	M591016E*	<ul> <li>one(1) DB25(p) outside and DB25(s) inside, 1000 pF Pi filter</li> </ul>	
		<ul> <li>one(1) DB9(p) outside and DB9(s) inside, 100 pF</li> <li>Pi filter</li> </ul>	
Data Interface Panel		one(1) USB2.0 outside and inside	
A DE ECT	M591017B	<ul> <li>three(3) SMA (f) ouside and SMA (f) inside</li> </ul>	
		<ul> <li>one(1) DB25(p) outside and DB25(s) inside,</li> </ul>	
		1000 pF Pi filter	
and the second		• one(1) DB9(p) outside and DB9(s) inside, 100 pF	
0		Pi filter	
Data Interface Panel		one(1) USB 2.0 outside and inside	
		one(1) DC Power Jack Adaptor	
000	M591023A	• four(4) N (f) ouside and SMA (f) inside	
		<ul> <li>two(2) USB2.0 outside and inside</li> </ul>	
Data Interface Panel			
	M591047A	three(3) SMA (f) ouside and SMA (f) inside	
		one(1) DB25(p) outside and DB25(s) inside,	
		1000 pF Pi filter	
A A A A A A A A A A A A A A A A A A A		two(2) USB 3.0 outside and inside	
Data Interface Panel		one(1) DC Power Jack Adaptor	

In this (\*) case, DB25 100 pF filter is fitted instead of 1000 pF

#### Custom I/O Interface Panel

• Customized I/O Interface Panel is available by selecting below I/O interfaces and combine. Please contact Tescom sales team or your local distributor.

I/O Interface	Description / Order Number	Typical Data Rate / Line Voltage	*Typical Shielding
	DB25, 1000pF pi Filter /	3 Mbps / 100 VDC,	>70 dB from 0.5 to 2 GHz
	3409-0009-1	5 Amps max	>80 dB from 2 to 3 GHz
			>70 dB from 3 to 6 GHz
	DB25, 100pF pi Filter /	10 Mbps / 100 VDC,	>50 dB from 0.5 to 2 GHz
Contraction of the second seco	3409-0014-1	5 Amps max	>60 dB from 2 to 3 GHz
			>60 dB from 3 to 6 GHz
	DB9, 1000pF pi Filter /	3 Mbps / 100 VDC,	>70 dB from 0.5 to 2 GHz
	3409-0008-1	5 Amps max	>80 dB from 2 to 3 GHz
			>70 dB from 3 to 6 GHz
A STATE	DB9, 100pF pi Filter /	10 Mbps / 100 VDC,	>50 dB from 0.5 to 2 GHz
	3409-0010-1	5 Amps max	>60 dB from 2 to 3 GHz
			>60 dB from 3 to 6 GHz
	USB 2.0 Filter /	480 Mbps / 5 V, 500 mA /	>60 dB from 0.5 to 2 GHz
	3409-0018A-3	Max Current: 5 A	>70 dB from 2 to 3 GHz
			>70 dB from 3 to 6 GHz
(4)	USB 3.0 Filter(Active) /	5000 Mbps/ 5 V, 600 mA /	>80 dB from 0.5 to 2 GHz
	3409-0042A-2	Max Current: 1.5 A	>80 dB from 2 to 3 GHz
400			>75 dB from 3 to 6 GHz
	RJ-45 Filter /	1 Gbit/s Copper-Line	>60 dB from 0.5 to 2 GHz
	3409-0022A	Ethernet (1000 BASE-T)	>70 dB from 2 to 3 GHz
A.			>70 dB from 3 to 6 GHz
	DC Power Adaptor /	50 VDC,	>70 dB from 0.5 to 2 GHz
	3406-0004A	3 Amps max	>80 dB from 2 to 3 GHz
			>80 dB from 3 to 6 GHz
	DC Power Adaptor	50 VDC,	>70 dB from 0.5 to 2 GHz
	(Banana Jack Type) /	10 Amps max	>80 dB from 2 to 3 GHz
() Part	3406-0005A, 3406-0006A		>80 dB from 3 to 6 GHz
	AC Power Adaptor /	250 VAC,	>70 dB from 0.5 to 2 GHz
	3103-0009A	7 Amps max	>80 dB from 2 to 3 GHz
			>80 dB from 3 to 6 GHz

I/O Interface	Description / Order Number	Frequency Range / Impedance / V.S.W.R
	RF, N-SMA Connector / 3408-0038	From DC to 6 GHz / 50 $\Omega$ / 1.15 max
	RF, SMA-SMA Connector / 3408-0039	From DC to 8 GHz / 50 $\Omega$ / 1.15 max

#### TC-5910DP Pneumatic Shield Box Data Sheet

- 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.

#### **Fixture**

- Tescom offers flexible fixtures that can change the location of the DUT fixture block. Depending
  on the shape of DUT, users can create its own fixture using fixture blocks within seconds.
  Moreover, customized fixtures that meet the demands of customers can be manufactured and
  supplied if necessary.
- The various types of antenna coupler options with fixtures allow optimal measurement environment configuration that fits the characteristics of each DUT.

Fixture	Order Number	Description
	F59106A	<ul> <li>Antenna Coupler fixed type fixture</li> <li>Antenna Coupler(Optional) : TC-93026A</li> <li>140(W) x 210(D) x 23.5(H) mm</li> </ul>

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE