TC-5916AP 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 | two(2) N(f) outside and SMA(f) inside | |
| I/O interface panel | | |
| 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 | 328(W) x 298(D) x 206(H) mm | |
| Outside | 420(W) x 430(D) x 260(H) mm, lid closed. 430(H) mm, lid open. | |
| Weight | approx. 13 kg | |
| *Packing | | |
| Size | 480(W) x 545(D) x 365(H) mm | |
| Weight | approx. 15 kg | |

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

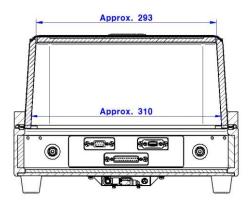
Typical RF Shielding

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 |

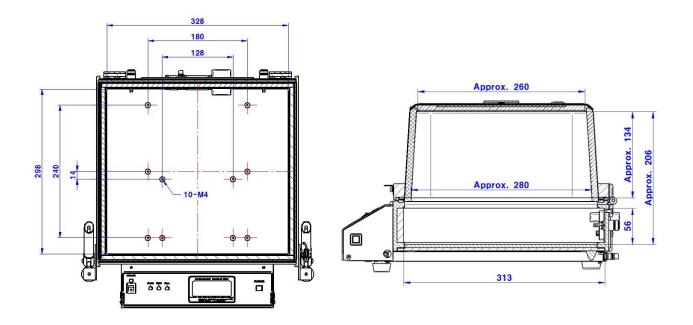
Dimensions

• TC-5916AP Inner Dimension (WxDxH) : 328(W) x 298(D) x 206(H) mm

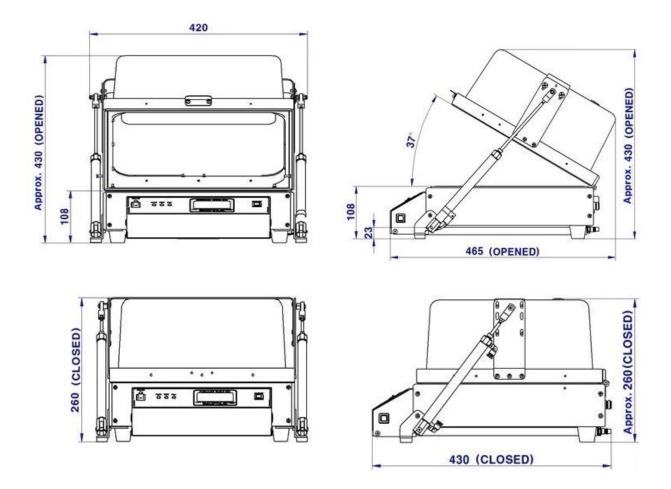


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• TC-5916AP Outer Dimension (WxDxH) : 420(W) x 430(D) x 260(H) mm, lid closed. 430(H) mm, lid open.



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Ordering Information

| Order Number | Description | |
|--------------|--|--|
| | Pneumatic Shield Box (including accessories below) | |
| | Test Report | |
| TC-5916AP | 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 |
|----------------------|--------------|--|
| | M591602A | one(1) DB25(p) outside and DB25(s) inside, 1000 pF Pi filter one(1) DB9(p) outside and DB9(s) inside, 100 pF Pi filter one(1) USB 2.0 outside and inside |
| Data Interface Panel | | |
| Data Interface Panel | M591605A | 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 one(1) USB 2.0 outside and inside one(1) DC Power Jack outside and inside |
| Data Interface Panel | M591632A | two(2) N (f) ouside and SMA (f) inside one(1) DB9(p) outside and DB9(s) inside, 1000 pF Pi filter four(4) USB 2.0 outside and inside one(1) RJ-45 outside and inside |
| | M5916135A | four(4) N (f) ouside and SMA (f) inside two(2) DB25(p) outside and DB25(s) inside, 100 pF Pi filter two(2) USB 2.0 outside and inside |
| Data Interface Panel | | |
| Data Interface Panel | M5916145C | five(5) SMA (f) ouside and SMA (f) inside one(1) DB9(p) outside and DB9(s) inside, 1000 pF Pi filter two(2) USB 2.0 outside and inside one(1) DC Power Jack outside and inside |

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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 | 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 |
| | 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 |
| E CONTRACTOR | 3409-0018A-3 | Max Current: 5 A | >70 dB from 2 to 3 GHz |
| | | | >70 dB from 3 to 6 GHz |
| (1) | USB 3.0 Filter(Active) / | 5000 Mbps/ 5 V, 600 mA / | >80 dB from 0.5 to 2 GHz |
| 3 | 3409-0042A-2 | Max Current: 1.5 A | >80 dB from 2 to 3 GHz |
| | | | >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 |
| 000 | | | >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 |
| -9 | | | >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 |
| () and | 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 Ω / 1.15 max |
| | RF, SMA-SMA Connector / 3408-0039 | From DC to 8 GHz / 50 Ω / 1.15 max |

- 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.

| Grid Fixture | Order Number | Description |
|--------------|-----------------|--|
| | F59161A | Antenna Coupler movable type Fixture Antenna Coupler(Optional): TC-93026A 310(W) x 260(D) x 52(H) mm |
| | F59165B | Antenna Coupler fixed type Fixture Antenna Coupler(Optional): TC-93026A 300(W) x 270(D) x 22(H) mm |

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE