

Shielding Box MSB-0200

MTS-No.: 17028

Application

The Shielding Box can be used for measurements and tests of electronic devices such as mobile phones, notebooks, evaluation boards etc. without electromagnetic disturbances from the environment.

Description

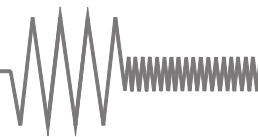
MTS Systemtechnik GmbH has developed a compact and movable EMC screened 'room', to fulfil multipurpose requirements. The stable construction of the Shielding Box series MSB is predestined for high test appearance due to the easy, single-handed open-close function. The test devices can either be clamped into an universal mobile phone attachment or put simply into the Shielding Box. The operation of the test samples can be done directly through the built-in flexible wire mesh or by using the numerous included communication interfaces.



touchpanel operating stylus not included

Characteristics

- ▶ Highest quality materials for extended life time and high test appearance
- ▶ Economical solution for high RF shielding levels and reproducible test scenarios to avoid time-consuming and expensive tests at EMC laboratories
- ▶ Usable for frequencies between 500 MHz to 6000 MHz, such as GSM / DCS / DECT / UMTS / LTE / RFID / ZigBee / Bluetooth / WLAN etc.
- ▶ Easy operation of the test samples directly through the built-in flexible wire mesh
- ▶ Weight optimized structure improves the mobility
- ▶ Highest safety standards through increased slip resistance and gas prop cover holder
- ▶ 1x integrated universal attachment for most types of mobile phones
- ▶ A wide range of supply and communication interfaces are included as standard
- ▶ Optional interfaces and connectors to customers specifications
- ▶ Shielding Boxes with other dimensions can be designed according to customers individual requirements



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Configuration:

2x N connections, 2x SUBD 9-pole (RS-232), 4x USB 2.0, 2x banana jack (voltage connectors) and 1x 230 V power plug

Technical data:

1 RF-specifications:

1.1 Impedance	50 Ω
1.2 Frequency range	500 MHz – 6000 MHz
1.3 Shielding @ closed cover (no mesh)	90 dB typ. @ 500 MHz – 2 GHz, 70 dB typ. @ 2 GHz – 4 GHz, 65 dB typ. @ 4 GHz – 5 GHz 55 dB typ. @ 5 GHz – 6 GHz

3.9 Surface	Aluminum chem. nickel plated (20 - 25 µm)
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3.10 Weight	10 kg
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2 Connectors (outside / inside):

2.1 Antenna-interface	2x N female / N female
2.2 Serial-interface	2x SUBD 9-pole female / SUBD 9-pole male
2.3 USB-interface	4x USB 2.0 type A female / type A female 2x double module
2.4 Voltage connectors (+VDC, -VDC)	2x banana jack 4 mm / banana jack 4 mm filtered, with protection against polarity reversal
2.5 Ground connection	Screw M4 outside
2.6 Mains voltage supply	Power plug (IEC 60320 C14) / 230 V AC power jack (CEE7/4), filtered

4 Delivery package:

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- 1 Closed cover
- 1 Cover with built-in flexible wire mesh
- 1 Mains cable
- 1 Universal mobile phone attachment
- CD with operation manual and configuration sheet

5 Comments:

Warranty	12 months
RoHS-compliance	Yes

3 General specifications:

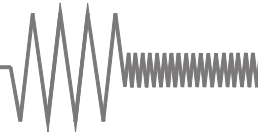
3.1 Power supply AC	100 V - 240 V AC, 50 Hz / 60 Hz, 1 A max.
3.2 Power supply DC	30 V max., 5 A max.
3.3 SUBD	50 V DC max., 1 A max.
3.4 USB	10 V DC max., 0.5 A max.
3.5 Operating temperature	+0 °C - +50 °C The equipment should not be subjected to extreme temperatures and variations in temperature.
3.6 Reference temperature for specifications	+25 °C
3.7 Dimensions (without protruding parts, like handles, connectors, etc.)	Outside: 418 x 268 x 163 (L x W x H in mm) Inside: 402 x 252 x 113.5 (L x W x H in mm)
3.8 Field of vision	190 x 130 (L x W in mm)

6 Recommended accessories:

- USB 2.0 cable type A / type A
- Lighting bar
- Several antennas
- Measurement cable assemblies

7 Possible options:

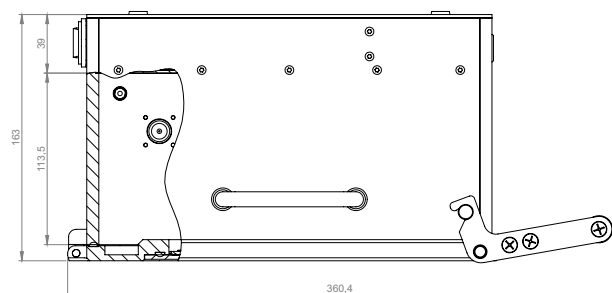
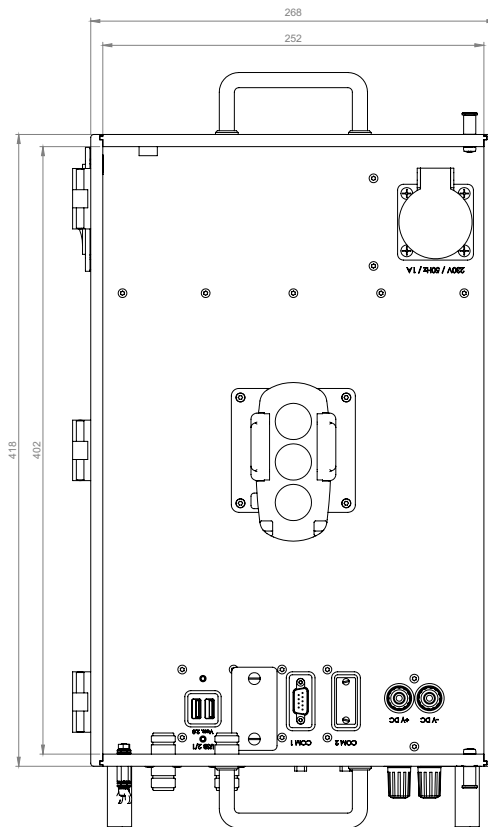
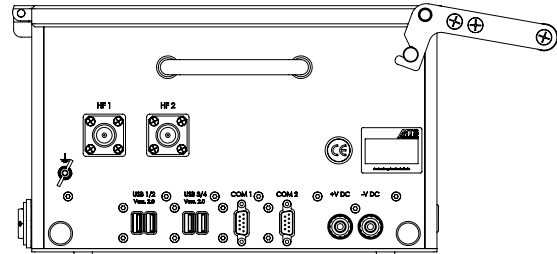
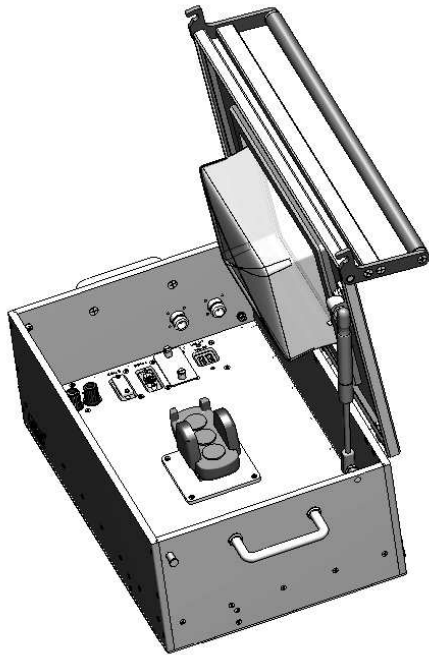
- Additional or other RF connectors
- VGA-interface
- LAN-interface filtered by optical media converter
- RF absorber mats
- Ferrite absorber
- Infrared window
- Locking (for padlock)
- Ventilation (fan)
- Mobile phone attachment with Velcro® fastening
- One or more pcs. of integrated touchpanel operating stylus

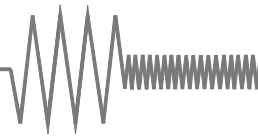


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Views:





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Shielding with closed cover (without flexible wire mesh):

Mean Shielding 500 MHz - 6000 MHz

