

# ROOTTEK PNEUMATIC RF TEST ENCLOSURE DATA SHEET



## 1. 1. Main Features

BIP Roottek Pneumatic shielding box supports broad band testing frequency and provides optimal testing condition to test mobile device.

- Outstanding durability and simple structure
- Convenient use and maintenance
- Supports an I/O interface panel to apply various interface (IB-series)
- High performance RF absorber
- High shielding effectiveness using double layer gasket structure.
- Support automatic door/lid control
- Support RS-232C control
- Fixture mounting holes in the Bottom Plate & optional fixture automation

## 2. Product Specification

		Specification
Recommended Air pressure		5~6 bar
Air connection	Main	6mm Air hose, push fitting
	Fixture	4mm Air hose, push fitting
Voltage		DC 24V, 3A Max
Button operation	Main	Two button operations
	Fixture	One button operation (for test only)
Remote control		RS-232C, DB9(s)

Shielding effectiveness

Frequency – Unit : MHz	Shielding effectiveness – Unit : dB
100-3000	>80
3000-6000	>70
6000-18000 (optional)	>70

\*The shielding effectiveness in the above is measured when the blank I/O panel is attached.\*

### 3. Remote control

BIP Roottek Pneumatic Shield box can be controlled the two buttons on the front panel and also can be controlled via RS-232C for automation.

#### 1. RS-232C setting

The basic RS-232C setting are shown in the table below.

Bps	9600bps
Data bit	8
Parity	None
Stop bit	1
Flow control	None

#### 2. Operating command

The Operating commands for Roottek Pneumatic RF shielding box control are as shown in the following table. The Carriage return is necessary to send a remote command. All response also need to send Carriage return in the end of response.

Lid/door open	Open
Lid/door close	Close
Fixture out	Out
Fixture in	In
Fixture up	Up
Fixture down	down
Pass LED On+ Open	Pass
Fail LED ON	Fail

#### 3. Response type

After completing the operation without any problem	OK
When an error occurs during the operation	Error
When the command is inputs incorrectly or when the shielding box is in a situation where the command cannot be executed.	Wrong order

#### 4. Dimensions

Roottek Pneumatic RF Test Enclosure basically has the same internal dimensions as each corresponding manual RF test enclosure and the external dimension is also very similar, but increases around 15cm in height for the swing door type shield box such as RT-1330 and RT-2330.

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\*\* The specifications in the datasheet can be updated without prior notice \*\*