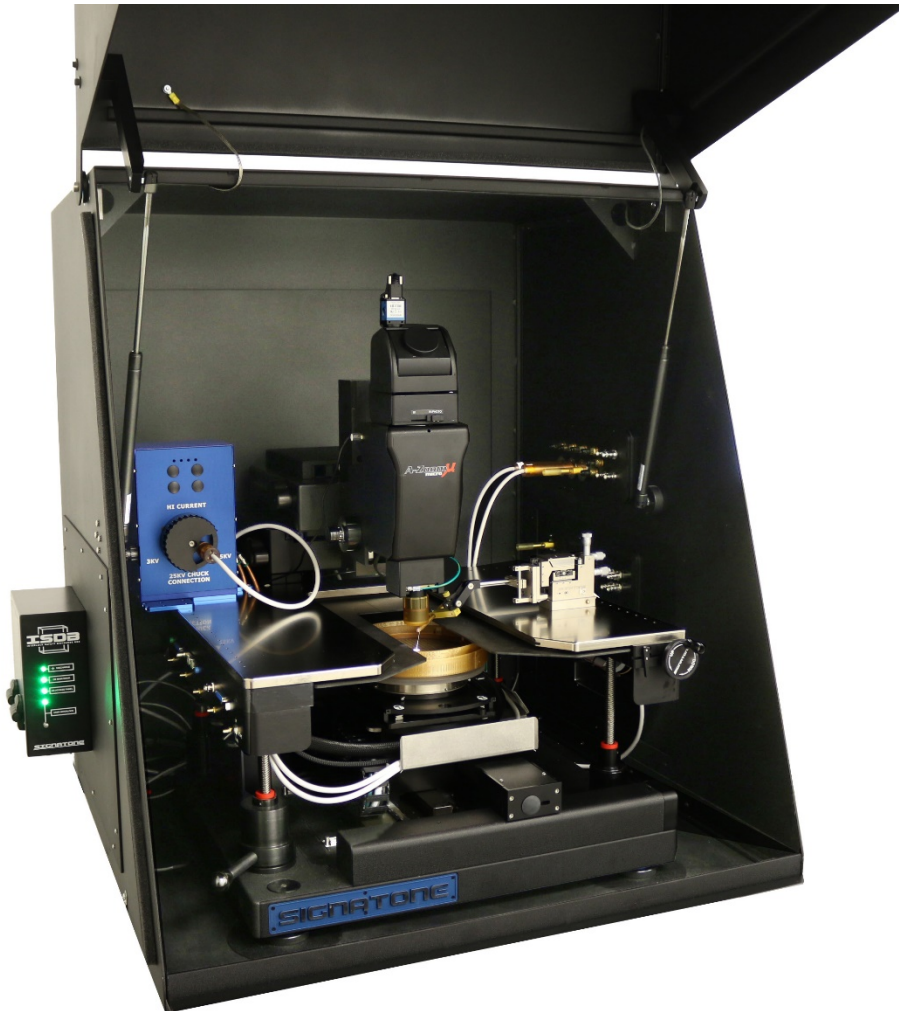


## **Signatone PSDB Probe Station Dark Box for Light Sensitive Measurements and Safe High-Power and High -Temperature Applications**



### **❖ FEATURES / BENEFITS**

#### **Standard Features**

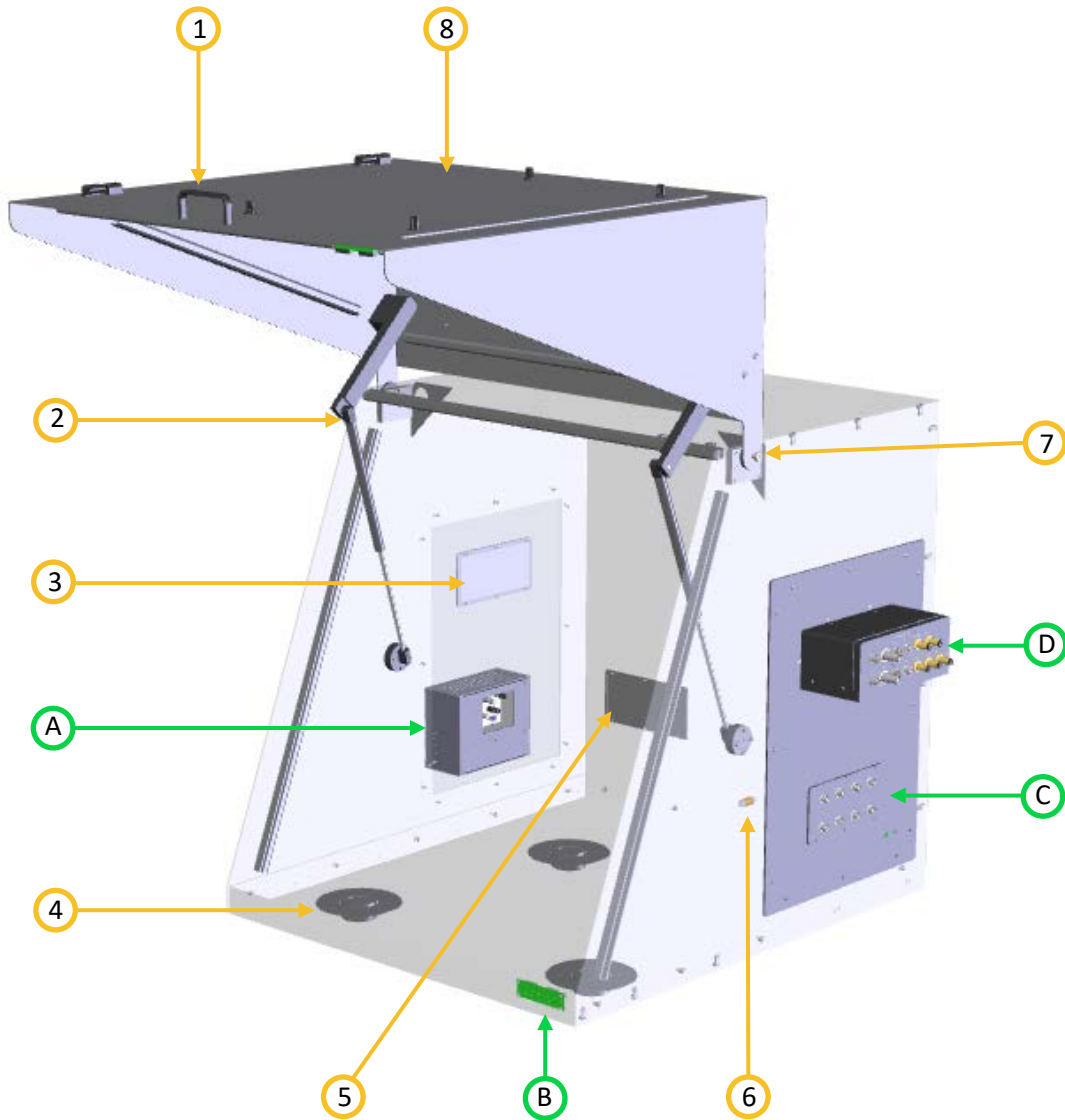
Probing applications that require protection from light and RF or emission and high-power safety can be enclosed in a dark box to provide the necessary protection. The PSDB (probe station dark box) is especially important when making low current or High-Power measurements.

The PSDB' come standard with a large top hinged front door that lifts open from the bottom-front, and feed-throughs for accessories. Most models include a lightweight side-hinged front door mounted in the larger top hinged front door so that minor probe and microscope adjustments can be made without opening the large spring-shock assisted front door.

#### **Designed for a Variety of Probe Stations and Measurement Applications**

- Large front door for system set-up
- Right and Left side connector panel
- Rear boot cable feed through panel
- Shock assisted door opening
- In-series interlocks for added safety: \*
  - High Power Application
  - High Temperature Application
  - Laser and other Emission Applications

## Signatone PSDB Probe Station Dark Box Standard Features and Options



### ❖ STANDARD FEATURES

1. Front Access Door Handle
2. Shock Assisted Door Lift
3. Blank Connector Panel
4. Probe Station Feet Extensions
5. Boot for Cable Feed Through
6. Vacuum Connection Feed Through
7. External Hinge / No Particle Generation
8. Front Access Door \*

### ❖ OPTIONAL ACCESSORIES

- A. Interlock Safety Discharge Box  
(for High Power Applications)
- B. In Series Safety Interlocks
- C. Coax-Triax Connector Panel's
- D. System Interface Panel (for High  
Power Applications)

## Signatone PSDB Probe Station Dark Box Optional Accessories



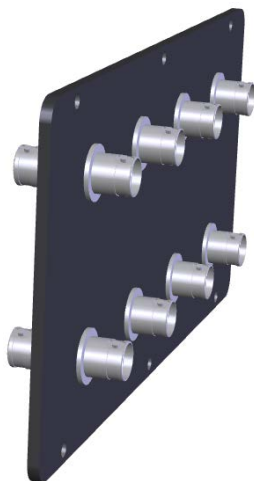
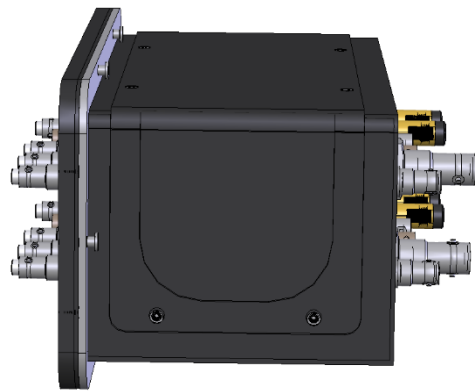
The Interlock Safety Discharge Box (**ISDB**) provides a visual status indication of interlock and chuck discharge operation. The ISDB is an integral part of Signatone’s PowerPro package. It can be mounted on left- or right-hand side of the dark box exterior.

- The “Discharge” light will blink from green to red for a second when a chuck discharge event has happened. After a discharge event, the LED will return to green.
- When the Main Door or Access panel is opened a light will turn red and interlock dis-engaged. It will return to green when the door or panel is closed.
- The “User Interlock” light will turn red when the switch is toggled to open up the interlock circuit. It will return to green when the switch is toggled back

### System Interface Panel (SIP)

Each SIP is a customized connection panel configured specifically for the required applications with customer review and approval prior to manufacturing.

This approach ensures the customer’s needs are met, with the necessary minimum investment, and yet retaining best flexibility for system “test” integration.

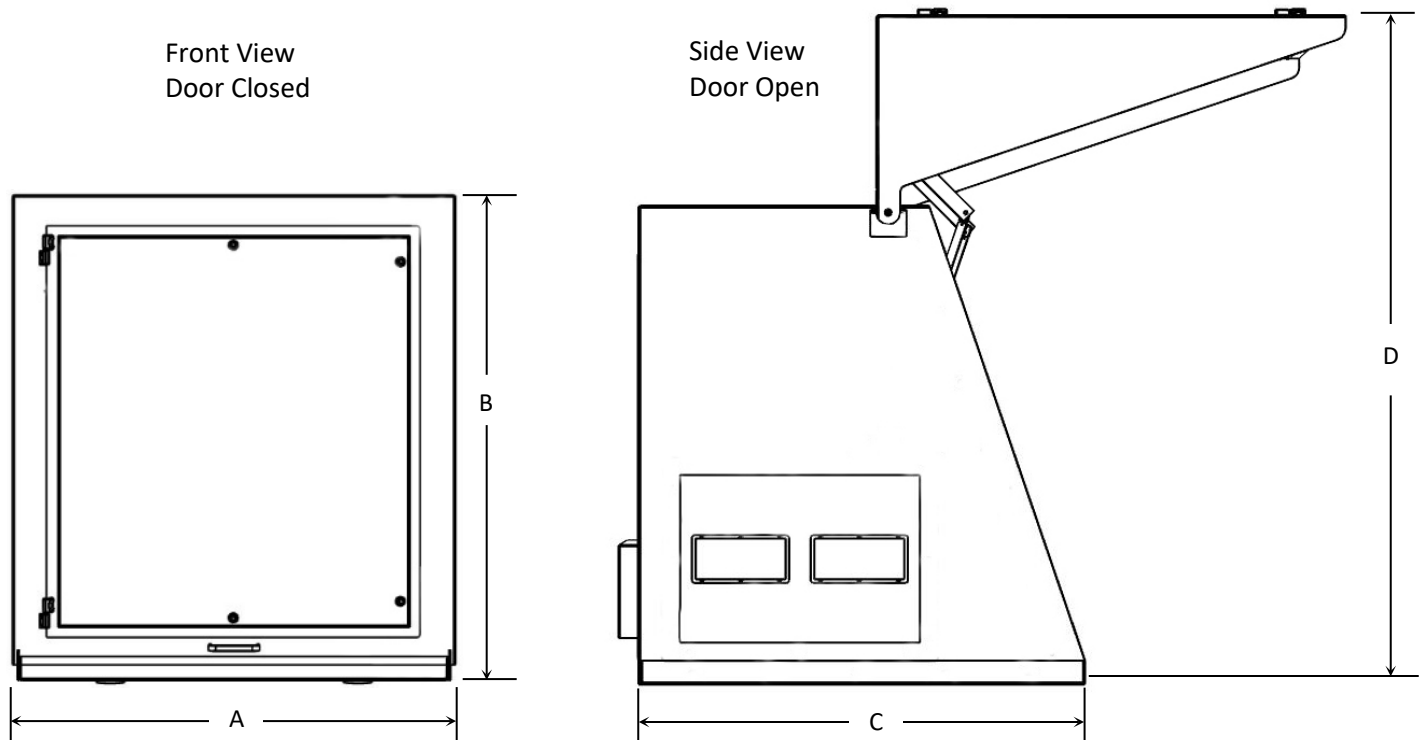


Many probing applications require protection from light, RF or “noise” that might otherwise interrupt or jeopardize a low current measurement.

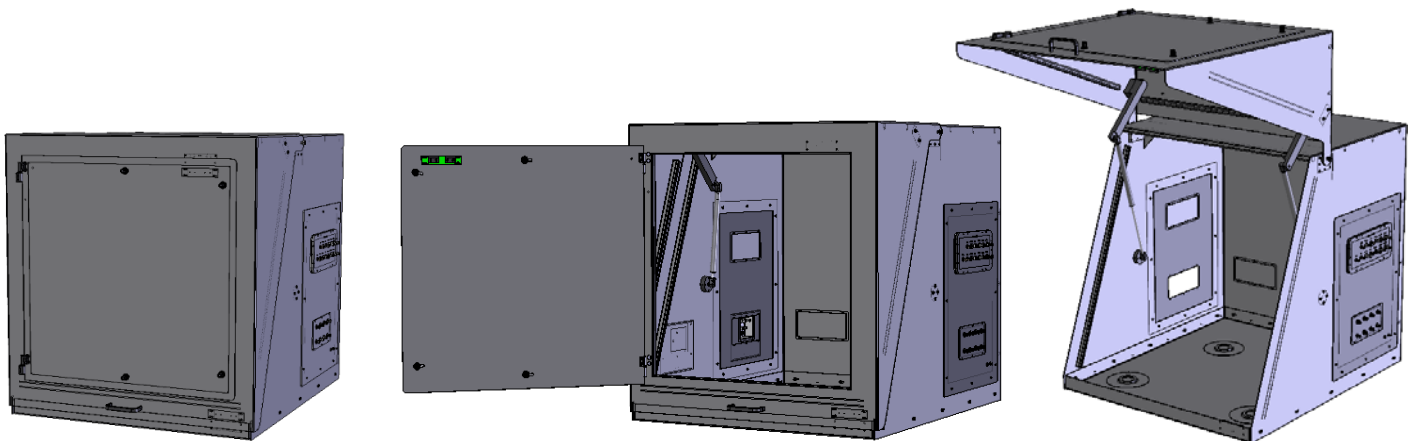
The Probe Station Dark Box (PSDB) is designed to enclose and isolate the probe system from the external electrical environment.

To facilitate connection from inside of the shielded box to the outside measurement instrumentation Signatone offers a large variety of cable connector panels including Coax/Coax , Triax/Triax, Coax /Triax Isolated, shielded, grounded.... see connector panel model #'s (page 5 of this document)

## Signatone PSDB Probe Station Dark Box Models and Dimensions



MODEL #	A	B	C	D
PSDB-100*	620 mm / 24.4"	766 mm / 30.2"	510 mm / 20"	1083 mm / 42.6"
PSDB-1160	834.4 mm / 32.85"	892.5 mm / 35.14"	948.7 mm / 37.4"	1286 mm / 50.62"
PSDB-CM	914.15 mm / 36"	1013 mm / 40"	955 mm / 37.5"	1414.65 mm / 55.7"
PSDB-CM12	1036.3 mm / 40.8"	1020.3 mm / 40.17"	1166 mm / 45.9"	1385.8 mm / 54.56"



\* The PSDB 100 Series Dark Box does not include a front access swing door.

❖ **WARRANTY**

- Standard Warranty 12 months \*
- For Extended Warranty and Service Contracts : Contact Signatone Corp. for more information

\* See Signatone Corporate Terms and Conditions of Sale for further details.

**Signatone PSDB Probe Station Dark Box Optional Accessories & Connector Panels**

PSDB -IL	Safety Interlock System for Probe Station Light Tight Boxes
BNSS-PSDB	1 Panel, 4 BNC connectors, 4 SSMC Connectors
BNCG-PSDB	1 Panel, 8 BNC feed through panel, grounded
BNCI-PSDB	1 Panel, 8 BNC feed through panel, isolated
TRX-PSDB	1 Panel, 8 Triax feed through panel
TXBN-PSDB	1 Panel, 4 BNC isolated & 4 Triax feedthrough panel
TXBA-TX-PSDB	1 Panel, 4 TRX to BNC adapters + 4 TRX isolated feedthrough bulk heads
TXBA-BG-PSDB	1 Panel, 4 TRX to BNC adapters + 4 BNC Grounded feedthrough bulk heads
TXBA-BI-PSDB	1 Panel, 4 TRX to BNC adapter + 4 BNC Isolated feedthrough bulk heads
TXBA-M160	Connection Feedthrough Panel: (4ea) Triax to BNC adapters, Guard Thru
BOOT-PSDB	Light shielded feed through "boot"



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