

## SENSOR CLEANING

### SMALL SENSORS: PSD

#### Cleaning optical windows

1. Demount the roller guide unit:
  - a. Open the reference pin screws (Figures 1 and 2)
  - b. Pull out roller guide unit (Figure 3)
  - c. If present, take out the air insert

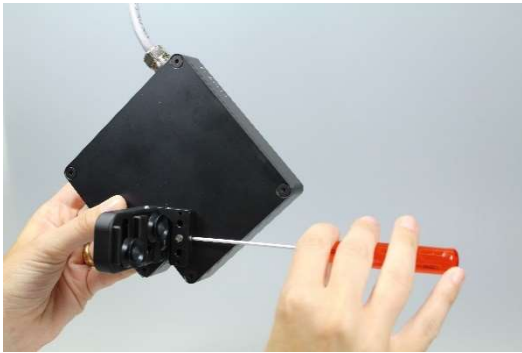


Figure 1: Unscrew first air support screw



Figure 2: Unscrew second air support screw



Figure 3: Take down the roller guides unit

2. Remove dust from the window surfaces by blowing them with compressed air, either from an air compressor or a gas duster
3. Dampen the tip of a new cleaning stick with alcohol, preferably isopropanol
4. Clean each of the four round sapphire windows by moving the stick up and down for 10 seconds (Figures 4 and 5)
5. Repeat this last operation with a clean and dry stick.



Figure 4: Insert the cleaning stick

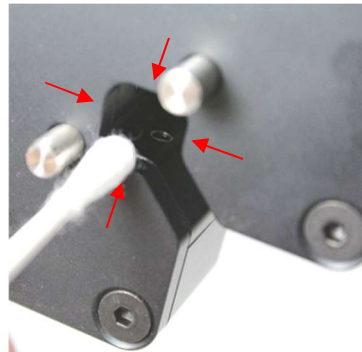


Figure 5: Clean each of the four sapphire windows

## **Cleaning roller guide surface**

Clean each of the four roller guide surfaces with a stick, the surface in contact with the wire or filament must be free of dust or wear debris.

## **„Clean magnet wire“ measuring conditions**

To ensure reliable measurements, magnet wires and filaments must be free of dust or wear debris which come close or exceed in size the lump threshold. Additionally, substances like oil, sizing agents, lubricants, or high humidity can cause particles to adhere to the filaments. Avoid dirt accumulation on the optical windows, which can result from environmental factors such as oil-saturated air, dust particles, or condensation, as this degrades the measurement. In Sensoft Multiline, and also in Sensoft Vision if a nominal diameter is provided, a warning will be displayed if the level of dirt necessitates cleaning of the sensor.