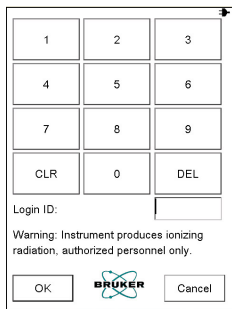


Before You Begin...

The **S1 TITAN** is an X-ray generating device and should only be operated by individuals who have completed an approved radiation safety program. Refer to the **S1 TITAN User Guide** for information related to the safe operation of the **S1 TITAN**.

Step 1

Insert a fully-charged battery, or connect an *approved* AC adapter. Press the power switch. Wait for the Logon Screen to appear. Tap the Logon button.

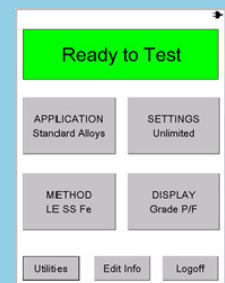


Log on to the analyzer by entering the operator passcode. A Radiation Warning message will display. Squeeze and release the trigger to continue.

Step 2

Step 3

Select the application which matches your sample type from the APPLICATION menu. By default, the **S1 TITAN** is configured to select the appropriate Method, Settings, and Display.



Apply the nose of the analyzer to the sample (the nose must remain in contact with the sample during the entire assay). The armed LED (see Step 1) will light yellow to show that the IR proximity sensor is covered (required for X-rays to be generated). Pull the trigger to begin analysis.

WARNING: X-rays are generated during this time.

When satisfied with the results, release the trigger to stop the analysis.

Step 4

WARNING

HIGH INTENSITY X-RAYS

DO NOT EXPOSE ANY PART OF BODY TO THE BEAM

In case of emergency, or if your analyzer is lost, stolen, or damaged, immediately contact Bruker at (800) 466-5323 or (509) 783-9850 and notify the appropriate regulatory and law enforcement agencies in your state or country.



PRECAUTIONS

- Do not allow anyone other than trained and certified personnel to operate the S1 TITAN.
- Be aware of the direction that the X-rays travel when the red lamp is on and avoid placing any part of your body (especially the eyes or hands) near the examination area during measurement.
- Never hold a sample to the window for analysis by hand; hold the window to the sample.
- The IR proximity sensor located on the nose is designed to prevent the emission of X-rays in the absence of an object. Do not attempt to defeat this important safety feature as it may result in unnecessary exposure to the operator.
- Pregnant women who use the S1 TITAN should be aware that improper handling or improper use of the instrument could result in radiation exposure which may be harmful to a developing fetus.
- If required by a regulatory agency, wear an appropriate dosimeter when operating the S1 TITAN.
- The operator is responsible for the security of the analyzer. When in use, the device should be in the operator's possession at all times.
- Always store the instrument in a secure location when not in use. Do not share passwords with those not qualified to operate the device.



Refer to the User Guide for more information.