CertSuite Asset
With S1 and MIT support

- **Mobile app / PC browser based Asset testing software**
- **S1 connection to Android and Windows devices**
- **MIT series connection via USB cable**
- **Full Asset testing management**
- **Secure cloud-based asset test result storage on the Microsoft™ Azure™ platform**
- **Simultaneous job access for multiple users (licence required per user)**
- **Free technical support**

DESCRIPTION

CertSuite™ is now available for use with the S1 and MIT range of insulation testers.

The new **CertSuite Asset** software is a simple and easy way to transfer test results from portable test instruments to a mobile device, when testing electrical assets. In fact it's more than that, CertSuite Asset can:

- Back up data to the cloud
- Graph test results (where appropriate)
- Store client details, Asset details and test set up details
- Record observations with comments and photographs

Fig 1: *Asset listed in job*

CertSuite Asset is your partner in testing, working alongside the instrument to help in reviewing and interpreting test results. It's an integral part of your Megger testing capability.

WHAT IS CERTSUITE ASSET?

CertSuite Asset is cloud based software that can be used on both Android or iOS smartphones and tablets, although that does depend on the instrument being used. For example, CertSuite Asset on an Android device can connect to the S1 via Bluetooth, and on a Windows device it connects via USB cable. The system is also accessible using most browsers, such as Microsoft Edge, Google Chrome or Mozilla Firefox.

When connected to the internet, CertSuite Asset uploads your valuable test results to secure storage within a minute or two of you recording them. You can also work 'offline', where CertSuite Asset will store the results on your device and upload them when connection to the internet is restored. So, no more concerns of losing data; missing information because it wasn't written down; missing important details, such as recording environmental conditions, the test setup and connections tested, or even visual inspection issues found.

In addition, it means that all asset and test records can be accessed simultaneously by multiple users (one licence required per user).

FEATURES

CertSuite Asset does more than just storing test results. As the name implies the focus is on Assets, such as cables, transformers, motors/generators, circuit breakers and bushings. Information about electrical assets of all sorts can be recorded; Asset locations, the client who owns the asset, observations about the asset, including photographs, can all be recorded into CertSuite Asset. Each 'Job' can hold results for many tests on many assets. You can also review every test result ever recorded for each individual asset.

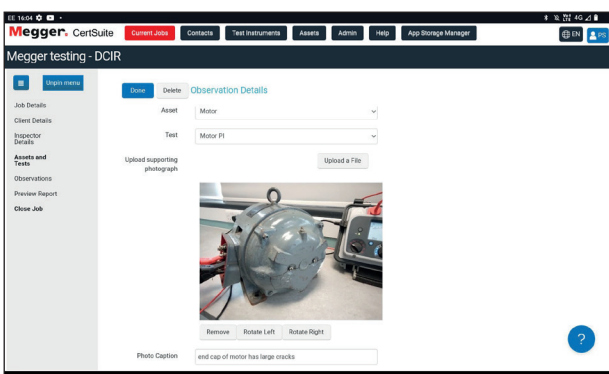# CertSuite Asset
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Fig 2: *Adding asset observations*

CertSuite Asset will act as a checklist and record everything you need. Many asset information fields are presented as drop down lists options making it quick and easy to select the right option. If the field option you wanted to record is not there, it is simple to add a new field to the drop down lists for future use.

Even test instruments are tracked with their serial numbers, calibration status and which users they are assigned to.

Fig 3: *Current test instruments*

Sometimes important details about test results are left out. Details that make tracking test history and trending possible are often overlooked. All of this changes with CertSuite Asset.

How can CertSuite Asset help you with your testing?

When using one of the compatible testers, the test results can either be transferred from the internal memory, or streamed live during testing.

Test results are then assigned to an asset. This can be done with repeating test results.

CertSuite Asset also provides live graphing of either the insulation resistance, test current or the test voltage applied.

Fig 4: *Ramp test current graphed live*

When it comes to any testing, the true value is having all the right information in one place accessible to all. So much of the value in testing can be lost due to time restraints, poor management of data and user error.

To explain further, here are some areas where this is happens in relation to testing with an S1 insulation tester:

Reviewing previous test results

Many users perform a simple 60 second Go – No Go test using their DC insulation tester. Often testing to a pre-determined test limits. These test results are then recorded mainly for proof of testing. However simple 60s IR test limits are rarely relatable to the true condition of the insulation. So in many cases a whole history of test results are there, but never reviewed. It is well known that in some cases the insulation recording the higher IR value can actually be the failing one, rather than the lower value. This where comparing with previous test results can be of real value.

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Result trending in detail:

What is the value in reviewing trending of results?

- Early indication of failing insulation. Identifying degrading IR values indicate something is changing.
- Can assist in forming a diagnosis that can drive failure preventing maintenance actions.
- It is not just about trending 60-second IR tests. Other diagnostic tests, such as PI (Polarisation Index) and DD (Dielectric discharge) can also be trended.

- Reasons that reviewing trending doesn't happen:
  - Accessing previous test results. Test results get stored in an office, and therefore not instantly available. It becomes too much time and effort to review previous test results.
  - Inconsistency in test setup. Trending test results means that all influencing conditions must be taken into account. If tests were not carried out in the same fashion, they will not be comparable.
  - Here's some of the things that can effect comparability of test results:
    1. Change in temperature between tests. Test results need to be temperature corrected and to the same base temperature.
    2. Variation in ambient humidity.
    3. Using different test leads for each test and routing the test leads differently between tests.
    4. Variation in insulation surface leakage.

Be on Guard for effective testing

The diagnostic value of using the guard terminal is not always apparent. However, it is actually your very first diagnostic tool. Let us review its value in accessing the condition of your insulation:

What does it do?

The guard terminal diverts unwanted leakage currents away from the instruments measurement circuit. In other words leakage currents such as those from surface leakage

How does it help?

High levels of surface leakage current may result in the measured insulation resistance being much lower than it actually is. Using the guard terminal will remove the effects of the surface leakage. Performing one test with and one test without the guard terminal will give you an indication whether the surface in contaminated or damp.

How can CertSuite Asset help?

Asset CertSuite can literally put test result history in the palm of your hand:

- Asset test history stored on the Cloud is easily reviewed via CertSuite Asset then and there, at the point of test.
- CertSuite lets you record details about each test. For example: whether the guard terminal was used, which test leads were used, where the connections were made and how the test leads were routed.
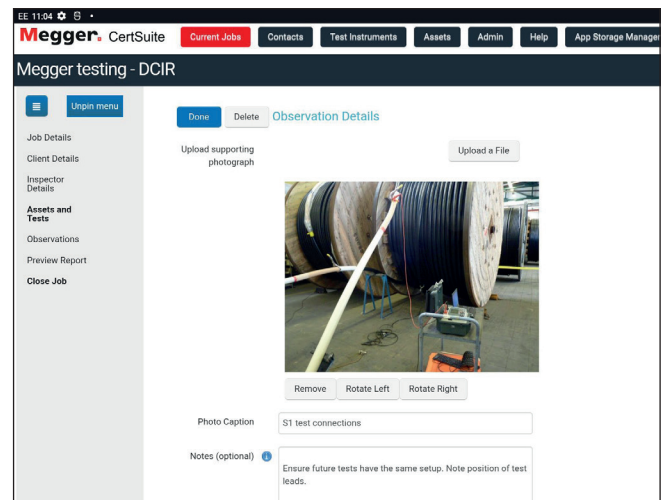

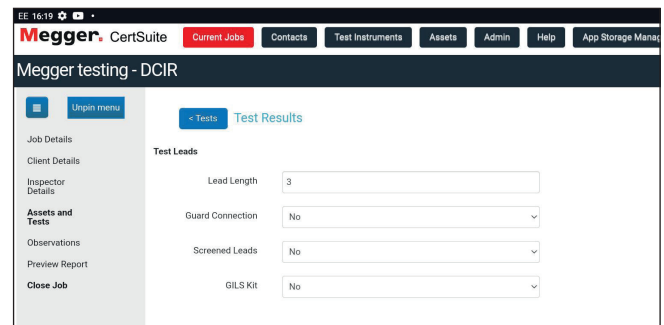**Fig 5:** *Observation showing test lead set up*

Fig 6: *Lead info recorded*

Easy to consider environmental variations:

- With all of the required information it is easier to decide whether variation in measurements has been caused by the prevailing weather or actually due to changes in insulation.
- All IR test results can be temperature corrected for any chosen reference temperature measurement.

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CertSuite Asset is a subscription-based package

Annual or monthly subscription packages are available, making it a cost effective and flexible option.

To find out more and to sign up, visit **CertSuite.info** for a month's free trial to really can experience the benefits before signing up to a subscription.

BENEFITS:

- Quick, reliable and flexible – works in any location and on any device (Android and IOS devices depending on the testing instrument).
- Client details recorded with their asset information and condition records.
- Job driven testing of multiple assets.
- Asset information and condition records.
- Use existing assets as template for new similar assets.
- Inspector / test operator details recorded and linked to tests performed.
- Multiple tests recorded against asset and job.
- Test instrument and user recording.
- Observation comments with photo tagging.
- Unlimited test report generation.
- Flexible report generation, the user selects what they want in the report, and a report is built to those requirements. Reports generated in pdf format.
- Online and offline operation – enter data and results without internet access.
- Secure results
- Saves time
- More value from results
- Android devices supported via Bluetooth®.
- Windows devices supported via USB cable.

Visit **CertSuite.info** for more information or scan the QR code

S1 SPECIFIC BENEFITS

- Copy test results from S1 memory to mobile app.
- Live streaming and graphing of IR curve, test current and voltage.
- Full test details recorded.
- In app temperature correction of IR curve.
- Records for humidity, weather conditions, test leads used and use of guard terminal.

CertSuite Asset is set to grow

CertSuite Asset supports the models outlined below in the Connection Guide, however, support for more instruments will be quickly added, to make it the one stop place to manage all of your mobile asset testing needs. Watch this space!

Connection Guide

Model	Android	iOS	Windows
S1-568	Bluetooth		USB
S1-1068	Bluetooth		USB
S1-1568	Bluetooth		USB
MIT525			USB
MIT1025			USB
MIT1525			USB
MIT2500	Bluetooth		
MIT430/2	Bluetooth		

Megger.