

The new generation of
fault location systems

Centrix



Benefits:

- ▶ **EasyGo operating concept** 
- ▶ **Automatic storage and logging**
- ▶ **Central control of all test van functions**
- ▶ **The six most innovative prelocation methods integrated**
- ▶ **Highest safety standard**



sebaKMT

The Centrix test van system from SebaKMT



► The Centrix

The Centrix test van system was developed in co-operation with our customers. The experiences of daily use and suggestions from many users have contributed to the unique operating concept. In this way a test system was developed which sets new standards:

- User friendly
- Efficient
- Arc Reflection pre-location methods up to 80 kV
- Arc burning with burn take over
- Automatic analysis of the test data
- Reports in PDF format
- Online documentation and help

All standard processes run automatically with the help of single button operation. The user can fully concentrate on his actual task – fault location.

► The operating concept

The control of the Centrix fault location system consists of a large monitor and a freely positionable control panel. This unit contains the central control element of the system – the Jogdial. The Linux based operating system is very stable. It stores all test and measurement data automatically. Data evaluation and transmission can be done easily.

The Jogdial serves as control for all system functions. Via the Jogdial it is also possible to directly access the online user manual, the test history, the phase selection and a quick menu. Operating steps which occur frequently during operation are automatically pre-selected by the Centrix system. In most cases, the next operating step is then done by simply confirming the operator guidance – simple and direct!



Control Panel

► Automated procedures

When using reflection methods, automatic functions determine the end of the cable and set the ideal parameters for the measurement range and method. The fault location is automatically determined and, for all prelocation methods, is immediately shown by a marker.

Due to the consistent ongoing development of the proven high voltage pre-location methods and due to the high performance of the software systems, excellent results are produced, even on faults which were previously hard to locate.



Examples for menus

The History function stores all measurement results automatically, no measurement will be lost. After seven days the measurements are stored into daily files.

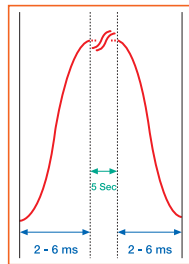
Besides the normal operation the Jogdial is also used to select side menus.

These side menus provide very comfortable the “Phase Selection”, “History”, the “Quick Select” as drop down menu and the “Help” function with online manual.

Centrix

► Test

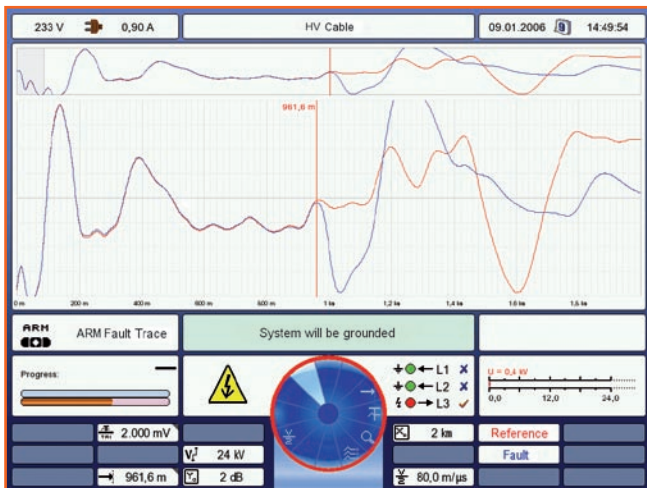
An integrated test, using a 0.1 Hz Cosine Square Wave voltage (54 kV 0.1 Hz VLF), permits tests to be carried out over the entire medium voltage range. DC tests are possible up to a maximum voltage of 80 kV. Test currents of up to 600 mA enable direct burning with the system, even without the use of external burn units. The integrated insulation tester and sheath tests additionally offer applications for all necessary maintenance work on cables and accessories.



0.1 Hz Cosine Square Wave voltage

► Prelocation

In addition to the proven Decay travelling wave and the impulse current methods (ICE) all other proven arc reflection methods are integrated into the Centrix. The Centrix also offers the ARM* process in a new version which has been optimised for shorter distances. Alternatively, for greater distances, ARM* Plus (up to 32 kV) and Decay Plus (up to 80 kV) are optional available. As a further feature, the Centrix includes the ARM burning process which permits the monitoring of the fault location with a reflection measurement, whilst the arc is burning. The burning process can thus be controlled and automatically provides a pre-location result. This means that the Centrix has the six most effective pre-location methods available.



ARM*- and ARM* Plus Reflectograms

One of the most progressive methods of fault location is the ARM* Plus double surge procedure, especially for high voltage levels. Firstly there is a discharge from a pulse generator or with DC voltage, to be able to cause a breakdown at the fault location.

In a second step, the duration of the arc resulting from the breakdown is automatically extended by a second discharge from the 4 kV surge module and is then measured with the corresponding pre-location method. This results in perfect fault traces.

► IFL mode

For intermittent faults, the Centrix has an IFL mode available, which can save a lot of time, particularly in the area of branched low voltage distribution.

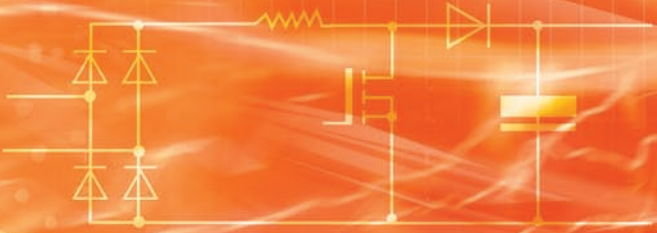
Changes caused by short circuits that would only be visible as tiny reflections are clearly recognised by their envelope. Therefore it is not necessary to know the exact time at which the change occurred as this is immediately and permanently visible. This technology allows the simple verification of the exact positions and branches in a branched low voltage network.



Typical IFL-Reflectograms

*ARM=ARC Reflection Method

We are happy to provide you with information!



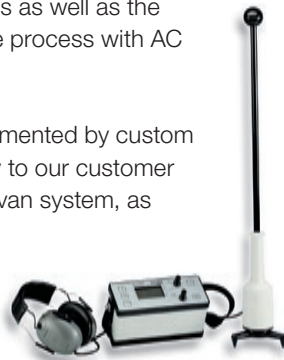
► Pin-pointing

With a comparably low weight, thanks to powerful surge modules with 1280, 1750 or 2560 Joules, the Centrix can produce a high surge energy at voltage levels from 2 to 32 kV. Together with the proven Digiphone, acoustic pin-pointing becomes a simple and reliable process.

Four pulsable voltage levels from 5 to 20 kV enable sheath testing and, via the step voltage method, sheath fault pinpoint location.

The pin-pointing technologies are rounded off by a powerful, integrated 200 W audio frequency generator. This supports the patented SignalSelect process as well as the direct and capacitive step voltage process with AC voltage.

These system options are supplemented by custom made solutions, which we modify to our customer requirements for the Centrix test van system, as required.



Digiphone



Rear view



Example view
test van control space

**For more information, see:
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Our range of products: Equipment and systems to locate faults in power and communications networks, as well as for leak location on pipe networks · line location equipment · seminars · service · contracting.

We reserve the right to make technical changes.

ISO 9001:2000