

Megger.

FREJA 300 **Relay Test System**

FREJA 300
Relay Test System



- Manual and PC remote control
- Easy to use
- Excellent software provides great visuals and simple setup
- Lightweight and portable
- User can calibrate the unit

Description

The FREJATM300 relay testing system is a computer-aided relay testing and simulation system. The weight of FREJA 300 is only 15 kg. The rugged hardware design is built for field use over a wide temperature range, with the possibilities of intelligent software to perform rapid testing.

FREJA 300 can be operated with or without a PC. After being put into the Local mode, FREJA 300 can be used stand-alone without a PC. Using the Local mode is easy. The function of each key is described on the display, which also presents the settings and measured values.

The very accurate (typically 0.01%) low level analogue inputs are designed for transducer measurements. The high level inputs can be used in a normal volt- and ammeter. FREJA 300 can generate 4x150 V (82 VA) and 3x15 A (87 VA) or 1x45 A (250 VA). Each output can be varied independently. Both static and dynamic testing can be performed, such as pre-fault and fault generation, simultaneous ramping of several quantities and wave form editing.

FREJA 300 can be also be used as a fault simulator to create proper relay configuration for specific applications. This is possible by importing and re-generating transient disturbance files often referred to as COMTRADE files. These files may include calculated digital records created by power network simulator software's such as EMTP, RTDS or data records from actual fault events.

With use of the GPS receiver accessory, GPS200 – MGTR, several FREJA 300 can be synchronized to perform end-to-end testing with the test sets allocated in different substations.

A FREJA 300 can be upgraded to a FREJA 306.

Application

FREJA 300 is intended primarily for secondary testing of protection relays. Virtually all types of protection relays can be tested.

Examples of what FREJA 300 can test	ANSI® No.
Distance protection relay	21
Synchronising or synchronism-check relays	25
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Freja 300 Test Manual

Chao Zhang



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