

F6010



CONTROLLER

The F6010 Controller provides stand-alone control functions for F6150 sources via the Ethernet or serial port of the F6150 instrument.

F6010 front panel controls are engineered for basic, steady-state control of voltage and current phasor quantities. Using the F6010 Controller, source control is expanded to provide the dynamic test functions of instantaneous switching voltage, current, and phase angle for up to 12 sources.

When F6000 Instruments are equipped with the F6800 Transducer and Meter Interface option, the F6010 Controller can automatically set up to three voltages/currents or phase angles for testing meters and transducers. When controlling any F6150 via the Ethernet/USB/Wireless interface, the Controller is easy to use and the F6150 Instrument Display accurately reports phasor quantities of amplitude, phase angle, frequency, on/off status, and Δ VALUE/ Δ TIME for the particular parameter whose rate is being controlled.

F6010 Features

- Lightweight and easy to use with touch screen user interface
- Provides enhanced, centralized control of F6150 sources
- Continuously variable frequency for all voltage and current sources
- Controls up to 12 sources: amplitude, phase angle, and frequency
- 3 states of dynamic testing
- Meter testing

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F6010 Benefits

Basic F6010 Controller functions include:

- Continuously variable parameters:
 - Voltage or current from 0 – full scale
 - Base Frequency from 0.1 Hz to 20 kHz
 - Phase angle from 0 to +359.9°; 0 to -359.9°
- Setting 2 to 12 sources of voltage/current/phase angle for dynamic tests
- Setting or varying the frequency of one, all, or all but one source for simulating slip frequencies and testing frequency relays and analyzing relay performance off-frequency
- Timing relay operation in response to instantaneous changes between two test values
- Continuous manual control of any parameter for visual observation of relay operation

Basic Functions are used for:

- Dynamic tests of any relay measuring function
- Automated: Trip frequency – reach – MTA – pickup/dropout tests, all without manual adjustments
- Automatically calculates expected time for Timing relay response
- Automatically calculates expected impedance for distance relay
- Generating slip frequencies for automatic synchronizer generator/bus simulation

Specifications are subject to change without notice.

For more information, contact
fserieshelp@doble.com

F6010 Controller Technical Specifications

- Power Supply:** 100 – 240 V ~ 2.5 A,
50 – 60 Hz
- Interfaces:** One 10/100 Ethernet port
and one USB port
- Operating Temperature:** 0° to 50° C
32° to 122° F
- Storage Temperature:** -25° to 70° C
-13° to 158° F
- Humidity:** Up to 95% relative
humidity, non-condensing
- Test Results:**
Load and save relay test plans and meter
test plans using a memory stick (customer-supplied)
Test results can be printed from F6010.

