

## DOBLE PROTECTION TESTING

# PROTECTION SUITE

Protection Testing Software

## PROTECTION TESTING, DATA MANAGEMENT & COMPLIANCE REPORTING

Doble Protection Suite is a complete, no-compromise, protection testing solution. Run manual and automated tests for protection-scheme verification, including IEC 61850 sampled values and GOOSE schemes. Protection Suite includes a library of relay test plans—use this flexible software to perform these tests, create modified versions, and/or create unique tests from scratch. Protection Suite is a comprehensive data-management system for storing, trending, system planning analysis and for reporting to regulatory agencies. Protection Suite software is available in a number of languages, including: English, Portuguese, French, Spanish and Chinese (Simplified and Traditional).

## PROTECTION SUITE EDITIONS

CHOOSE WHICH EDITIONS MAKE SENSE FOR YOUR TESTING PROGRAM

- **PROFESSIONAL**—Automation and macros get the job done right, quickly
- **BASIC**—See the solution with graphical testing
- **CONTROL PANEL**—In-depth, intuitive manual control for F6150 testing
- **CALIBRATION**—Calibrate F6000-series instruments
- **OFFICE**—Create test plans, run reports & perform other supervisory activities



## PROTECTION SUITE PROFESSIONAL

AUTOMATION & MACROS GET THE JOB DONE RIGHT, QUICKLY

- Take complete control of protection testing
- Save time—Doble macros make testing efficient and fast
- Improve efficiency and reuse with test/test-plan copy/paste
- Automate F-Series protection testing—benefit from repeatability
- Test older and state-of-the-art protection devices with ease
- Create new tests quickly with Test Plan Builder
- Read relay settings—modify tests based on actual relay settings
- Link to any program with advanced scripting functions, for ultimate automation
- Professional editions includes all these features, plus all the capabilities of the Basic, Control Panel, Calibration & Office editions.

SPECIALIZED TESTING FOR NOW AND THE FUTURE

- Gather and record data from the entire substation/system with Data Entry and Spreadsheet steps, and Battery Tests
- Run phasor measurement (PMU C37.118) and synchrophasor tests
- Monitor and generate IEC 61850 9-2LE sampled values and GOOSE

ADVANCED REPORTING KEEPS YOU IN THE KNOW

- Filter report data for NERC compliance reporting
- Synchronize test data and test plans—link to ENOSERV PowerBase



## PROTECTION SUITE BASIC

- Model and test schemes (faults and reclosing) with 256-states State Simulator
- Generate fault values with intelligent Power System Model
- Test with actual recorded faults—streaming COMTRADE playback
- Play simulations from .SS1 and .SS2 files
- Give new life to your test library—convert old .db ProTesT plans and results
- Improve speed and accuracy—apply global changes with formulas
- Perform analog/digital meter and transducer testing (with F6800 option)
- Check ct and pt polarity and wiring
- Capture data with 8-channel DFR (F6820 Analog Input Measurement option)
- Generate customized test reports and report templates



## PROTECTION SUITE CONTROL PANEL

- Run manual ramp, pulse and step functions (voltage, current and frequency) for testing protective-device operations
- Trigger timers from analog and digital events, with logic
- View graphical setup and phasor-quantities displays
- Save files (with results) for future tests



## PROTECTION SUITE CALIBRATION

- Use with F6150 test sets and F6300-series amplifiers
- Calibrate with the F6080 Field Calibration Unit (optional)
- Perform calibration yearly and before important jobs

## PROTECTION SUITE OFFICE

- Ideal for supervisors, use the Office edition to develop and organize test plans, approve work and run reports
- Perform office-related protection activities; this version does not operate Doble's protection test equipment
- Includes all other features of Protection Suite Professional besides instrument operation



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Specifications are subject to change without notice.  
 Doble is ISO certified.  
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