

# DOBLE PROTECTION TESTING ACCESSORIES

Maximize Capabilities of Your Doble Power System Simulators

## COMMUNICATION ACCESSORIES



### **F6051** IRIG-B Converter

The F6051 is a compact IRIG-B time protocol converter designed to meet industry and security standards by providing precise time synchronization. It is designed for interior use when you are unable to run a satellite antenna cable outside due to CIP compliance concerns. It is ideal for locations where an IRIG-B source is available.



### **F6052** Universal Time Synchronizer

The F6052 is a portable station clock capable of time synchronization for PMU, IEC 61850, end-to-end scheme testing & telecommunication coordination delays. It is ideal for use in hydro dams, security restricted substations, nuclear power plants, test laboratories, metropolitan areas and other locations with limited sky availability.



### **F6895** GPS Receiver/Antenna

The F6895 option includes a GPS antenna/receiver with 100ft. cable and is used with the F6885 GPS Receiver Interface to provide a GPS signal to the test instrument.

## TRANSDUCER METERING TEST OPTIONS



### **F6071** Infrared Optical Pickup

The F6071 Infrared Optical Pickup is used to sense infrared pulses from device LEDs. Allows automated calibration of solid state watt-hour, var-hour and vahour meters.



### **F6072** Visible Light Optical Pickup

The F6072 Visible Light Optical Pickup is available for those solid state meters that have a visible calibration LED.



### **F6073** Meter Disk Sensor

The F6073 Meter Disk Sensor is a suction mount reflective pickup assembly used to sense the disk rotation of an induction type meter.

## OPTIMIZATION ACCESSORIES



### **F5850** **Testing Interface for the IntelliRupter® PulseCloser® Fault Interrupter**

Use the F5850 to effectively test and verify correct operation of the IntelliRupter® PulseCloser® Fault Interrupter. The F5850 is a portable test interface that is used in combination with your power system simulator to test setting and logic schemes of the IntelliRupter® Fault Interrupter Control Module.



### **F6300e** **External Amplifier**

Use Doble's F6300e External Amplifier with your Power System Simulator for critical high burden relay testing and to perform necessary system modeling with 3rd party software. This amplifier features 12 enhanced current sources. When combined with Doble's Protection Suite software, you will have the ultimate flexibility to test complex schemes using the new Power System Model engine to test models that require multiple currents such as bus differential schemes and multi-winding transformer models.



### **F6816** **External Input/Output Unit**

Double the number of inputs and outputs you can use for testing with the F6816, a unit that provides eight additional inputs and 8 additional outputs. With 16 inputs and outputs you can monitor and control a large number of relay contacts. This is helpful in elaborate end-to-end tests and dynamic testing of protection schemes.



### **F6080** **Field Calibration Unit**

Properly calibrate your power system simulator with the F6080 Field Calibration Module, which helps save time and money by giving you the capability to calibrate your test system in the field. The F6080 provides automatic recalibrations of voltage and current sources for all ranges. It also checks and calibrates logic inputs and outputs. Protection Suite Software is used to test the calibration.



### **F6350e** **External Amplifier**

Use Doble's F6350e External Amplifier with your Power System Simulator for critical high burden relay testing and to perform necessary system modeling with 3rd party software. This amplifier features 6 voltage and 6 enhanced current sources. When combined with Doble's Protection Suite software, you will have the ultimate flexibility to test complex schemes using the new Power System Model engine to test models that require multiple currents such as bus differential schemes and multi-winding transformer models.



### **Compact AC Current Clamp** **High Accuracy Voltage Output Current Clamp**

Doble's Compact AC Current Clamp is designed to help you perform precise protection testing in wiring tight circuits. This highly accurate current probe is used with your Doble protection series test instruments (and the F6820 AIM option) for monitoring and recording parameters.



### **Lead Bag** **Complete Cable Kit**

Inside this durable bag you will find all the leads and related components needed for your standard relay tests. This set includes all your cables with retractable test leads, lugs, spade connectors, crocodile clips, adapters, clip connectors and more.



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