Megger

Options for OCR-8015 and Model OCR-9150
Computer Interface, Printer Port and Programmable Time-On Duration

- **RS-232 interface**
- **Centronix printer port**
- **Programmable time-on duration**

DESCRIPTION

Because of the increasing demand by the utility industry for computer interface and control, an option package has been developed for the Model OCR-8015 and Model OCR-9150 recloser test sets. A number of units already have been built or modified to incorporate these features.

The option package includes:

- An RS-232 interface for data capture and remote operation of the control panel by a personal computer. Test-current output and impedance-compensation controls remain manually operated.

- A Centronix printer port

- A programmable time-on duration for the OCR timing test, which allows the operator to select from 1 to 199 seconds' test duration.

APPLICATIONS
RS-232 Interface

Output Data Format
The unit will automatically transmit the results of each test upon its completion via the RS-232 port. The test may be repeated by a simple computer command.

When operating, the following data will be captured:

Minimum Trip Current
This test determines the minimum operating (pickup) point.

Sequence of Operation
This verifies the number of operations to lockout.

Test Current
Indicates test current values for each operation.

Operating Time
Digital timer measures the elapsed time of each operation.

Reclosing Time
Digital timer measures the reclosing interval between each operation.

Total Clearing Time
Digital timer measures the total elapsed time to lockout.

Format

MODE:__ __ __ __ __ __ __ __ __ __ __ __ __ __

RESULTS:__ __ __ __ __ __ __ __ __ __ __ __ __ __

A1: _ _ _ _ _A2: _ _ _ _ _A3: _ _ _ _ _A4: _ _ _ _ _

T1: _ _ _ _ _T2: _ _ _ _ _T3: _ _ _ _ _T4: _ _ _ _ _

R1: _ _ _ _ _R2: _ _ _ _ _R3: _ _ _ _ _TT: _ _ _ _ _

Definitions

1. Mode will be one of the following:
   - A) NOT SELECTED
   - B) OCR TIMING
   - C) MINIMUM PICKUP
   - D) SECTIONALIZER
   - E) MOMENTARY
   - F) MAINTAINED

2. Results will be one of the following:
   - A) EXCESS TIME
   - B) LOCKOUT
   - C) EXCESS SHOT
   - D) OCR (timing mode)

3. "A1-4" represents test currents, values for operations 1 through 4.

4. "T1-4" represents trip times, in seconds, for operations 1 through 4.

5. "R1-3" represents reclose times, in seconds, after operations 1 through 3.

6. "TT" represents total time, in seconds, to lockout.

Command Data Format

The OCR units may be controlled from a personal computer over the RS-232 port almost exactly as it is controlled by the front-panel pushbuttons. The EXCESS TIME limit can be programmed by the computer as well as the three-digit decade switch.

Interfacing Considerations

The RS-232 port is located on the right side panel of the control cabinet. The interface is programmed to run at 9600 baud. Other baud rates are available; please contact Technical Sales for details. The Centronix printer port is located next to the RS-232 port.

Centronix Printer Port

At the completion of each test, the test data is transmitted to the printer port and will print on any standard Centronix printer in the same format as shown under "Output Data Format."

Programmable Time-On Duration

The standard OCR units come with a fixed time-on duration of 20 seconds. However, some reclosers equipped with solid-state controllers can take up to 120 seconds' total time to lockout.

To test this type of system, it would be beneficial to have the programmable time-on duration feature. Included in this option package is a three-digit, thumbwheel switch which allows the operator to select any time duration between 1 to 199 seconds.

Field Conversion

The programmable duration time, RS-232 port, Centronix printer port, remote control features and automatic data retrieval are all features of this option package.

This package can be installed in existing OCR units by the customer. Conversion requires the customer to cut a hole in the control panel for the decade switch and two holes in the side panel to mount the RS-232 and Centronix printer ports. All wiring is through multi-conductor ribbon cables, which plug into either the interface board or the CPU board.

If desired, the unit can be returned to the Dallas manufacturing facility for conversion.

ORDERING INFORMATION

Item (Qty)	Cat. No.
RS-232 interface, printer port conversion kit and programmable time-on duration	12563