

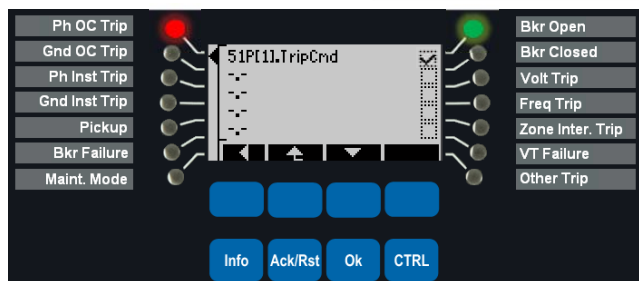
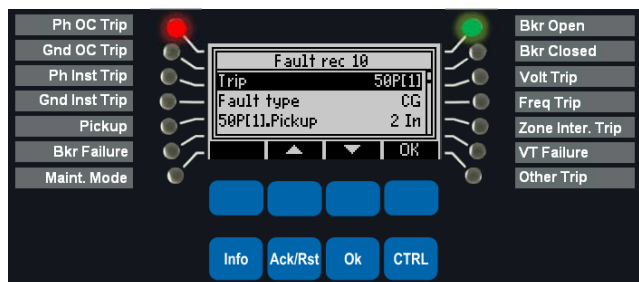
This cheat sheet should only be used by qualified individuals to REVIEW, ACKNOWLEDGE, RESET, CHANGE/NAVIGATE the fault conditions, outputs, LED's, measured values, or settings of the E-Series relays. This document was created using version 2.0 of the product firmware. Since then, version 2.5 has been released, so minor differences exist.



MAIN SCREEN

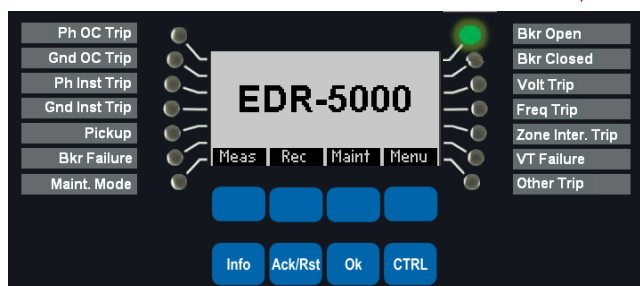
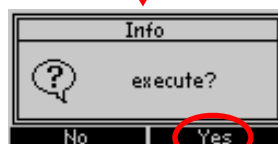
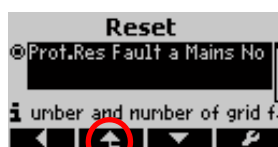
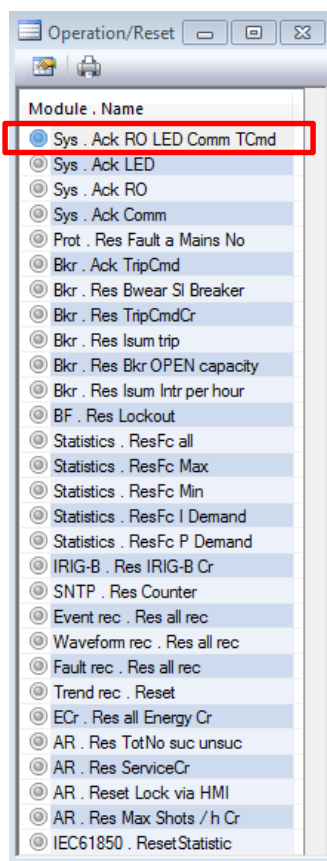
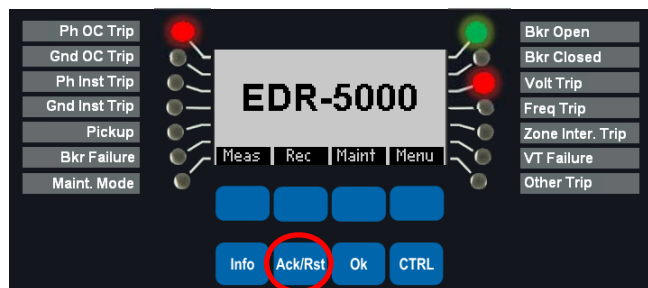
1. The Main Screen shows the relay model – i.e. EDR-5000. If the Main Screen is not shown, press the top left soft-key () until the Main Screen is displayed.
2. The top 4 soft-keys () will have the following descriptions on the Main Screen:
 - *Meas* = Measured Values
 - *Rec* = Recorders (for EDR, ETR, EGR)
 - *EmgOvr* = Emergency Override (for EMR)
 - *Maint* = Manual Maintenance Mode
 - *Menu* = Complete Menu Tree

How To REVIEW CAUSE OF TRIP AND FAULT CONDITION OF THE LEDs



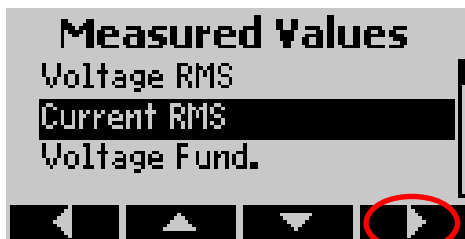
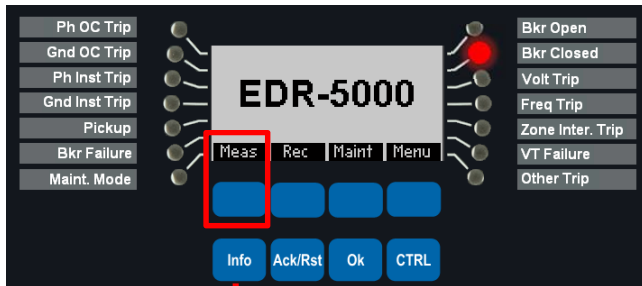
1. Immediately after the pickup and timeout of an enabled protection element the display will show the cause of trip and details from the fault recorder. After reviewing the details, press the OK soft-key.
2. Press the Info soft-key () to display the LED info (soft-key actions begin to blink as shown on left). A list of the first parameter assigned to each LED is displayed. Pressing the Info soft-key again displays the other LED set (i.e. right or left side). Press the right arrow soft-key () to drill into the individual assignments for each LED. A black arrow points to the displayed LED (i.e. Ph OC Trip). The dotted box(es) with a check mark () indicates the parameter which has illuminated the LED. This information can be verified later using the Event / Waveform Recorders. Press the up or down arrow soft-key () to scroll thru and review both the left and right set of LED's.

HOW TO RESET LATCHED LEDs AND RELAY OUTPUTS



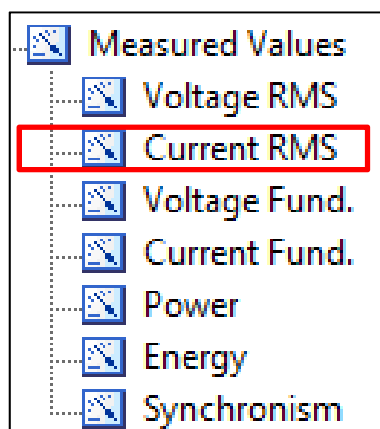
1. It is first recommended to take note of the specific fault conditions displayed via the LED's (see process on page 1, How to Review a Fault Condition) and the Event Recorder.
2. Press the Acknowledge/Reset soft-key () to display the Reset menu.
3. Scroll up or down to find the appropriate reset command. Generally, the **Sys.Ack RO LED Comm TCmd** reset command at the top is the desired choice; however, caution may be warranted depending on the relay protection scheme since this command also resets any latched relay outputs. A complete list of available EDR-5000 reset actions is shown in the PowerPort-E software on the left which is identical to the relay faceplate selection list.
4. Press the wrench soft-key (), then enter the password (default is 1234), then press the Ok soft-key (), then press a soft-key under Yes () to execute the reset.
5. The Relay Outputs, LED's, Communications, and Trip Command will all be reset UNLESS a trip or pickup condition still exists. If necessary, review and clear the fault conditions displayed via the LED's from the process on page 1. (i.e. Loss of Utility voltage may cause an undervoltage [27] trip. Utility voltage must return to normal before the condition can be acknowledged / reset.)

How To **VIEW MEASURED VALUES**



1. From the Main Screen, press the Measured Values soft-key (**Meas**). If the Main Screen is not shown, press the top left soft-key (**Meas**) until displayed.
2. Press the up or down arrow soft-key (**▲ ▼**) to scroll to the desired measured value submenu (i.e. Current RMS).
3. Press the right arrow soft-key (**▶**) on the desired submenu to view the list of measurements available under that category.
4. Press the up or down arrow soft-key (**▲ ▼**) to scroll thru the available measurements.
5. To view other measured values, press the left arrow soft-key (**◀**) to return to the Measured Values menu, and repeat items 2, 3, and 4 above.

*Available **Measured Values** differ for each relay model (EDR-5000 shown below)*

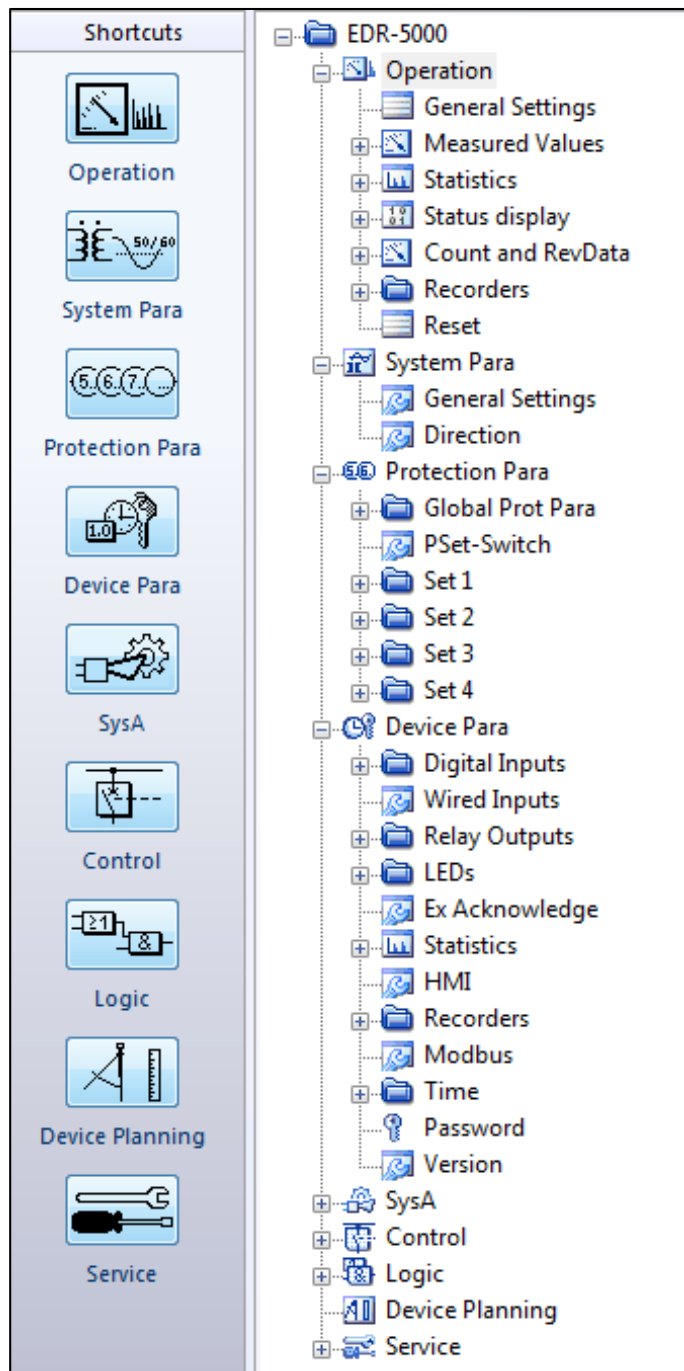


Name	Value	Unit
IA RMS	?	A
IB RMS	?	A
IC RMS	?	A
IX meas RMS	?	A
IR calc RMS	?	A
%IA THD	?	%
%IB THD	?	%
%IC THD	?	%
IA THD	?	A
IB THD	?	A
IC THD	?	A

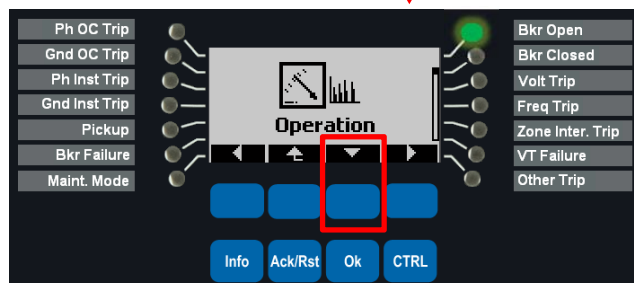
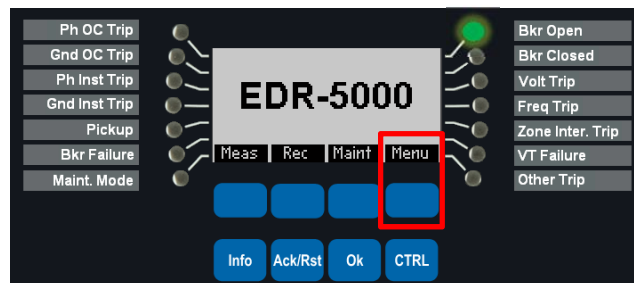
How To NAVIGATE THE FACEPLATE MENU

- The Menu layout from the faceplate is identical to the PowerPort-E setting software layout.
- Available **Menu Items** differ for each relay model (EDR-5000 shown below)
- PowerPort-E software is available for download at www.eaton.com/pr.

PowerPort-E software on a Computer



Faceplate Menu Layout (Example)



(pressed twice)

