



M-7679 R-PAC QUICK REFERENCE GUIDE

PROTECTION, AUTOMATION AND CONTROL SYSTEM FOR RECLOSER, SWITCH, SECTIONALIZER AND ADVANCED DISTRIBUTION AUTOMATION APPLICATIONS.

Modify Recloser Settings using Front Panel (HMI)



Required Tools:

- PC running Windows 7® or higher
- S-7600 IPScom Communications Software

Latest version of IPScom software can be downloaded from:

<https://beckwithelectric.com/products/s-7600/>

Required Documentation:

- M-7679 Instruction Book
- M-7679 Application Guide
- Communications and Cybersecurity A.G.

Latest version of M-7679 Instruction Book can be downloaded from:

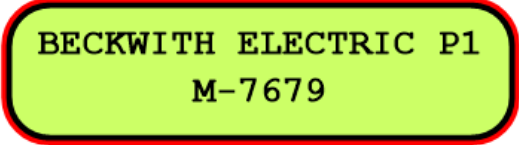
<https://beckwithelectric.com/products/m-7679/>

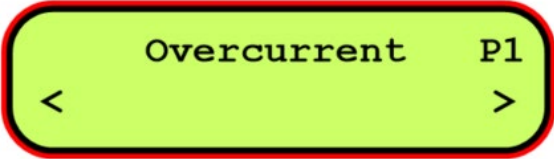


Table of Contents	
Change the 51 Curve via Front Panel (HMI)	3
Change Recloser Settings via Front Panel (HMI)	8

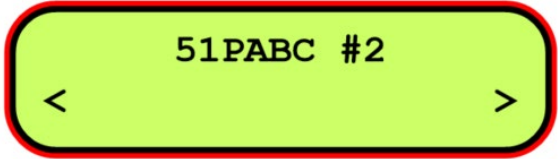
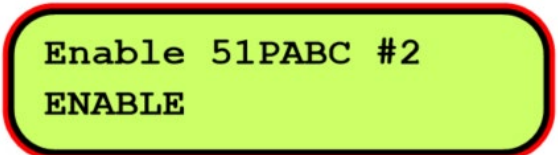
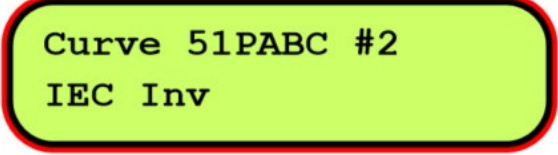
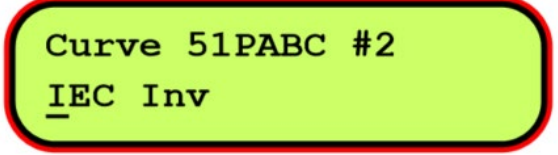
Change the 51 Curve via Front Panel (HMI)

This Quick Reference Guide explains the procedure to modify recloser settings in the M-7679 R-PAC, particularly, the 51P curve and the recloser sequence settings, using the Front Panel (HMI).

1	From the Main Screen, press SETP button.	 
2	The LCD will show SETPOINTS . Press the ENT / UTIL button to enter the SETPOINTS menu.	 
3	The LCD will show PROFILE . Press the ENT / UTIL button.	 
4	The LCD Will show Edit Profile and will show below Profile 1 . Press ENT / UTIL .	 

5	The LCD will show a cursor under the Profile name indicating that the Change Mode is active. Press UP and DOWN arrows to select the desired Profile for editing.	 
6	Then press ENT / UTIL . The LCD will display the selected Profile.	 
7	Press EXIT button once. The LCD Will show PROFILE .	 
8	Press RIGHT arrow until the LCD shows Overcurrent . The LCD also shows P1 indicating that the profile to be edited is Profile 1 .	 

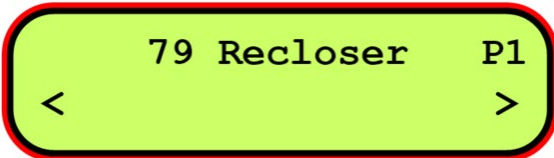
9	Press ENT / UTIL . The LCD will show Phase ABC .	 The LCD screen displays "Phase ABC" in a green box with a red border. Above the box is a black button with "ENT" and "UTIL" in white. The screen also shows left and right arrow symbols.
10	Then press ENT / UTIL . The LCD will display Element #1 .	 The LCD screen displays "Element #1" in a green box with a red border. Above the box is a black button with "ENT" and "UTIL" in white. The screen also shows left and right arrow symbols.
11	Press RIGHT and LEFT arrows to select the desired Element for editing.	 The LCD screen displays "Element #2" in a green box with a red border. Above the box are two black buttons with "MNTR" and "COMM" in white. The screen also shows left and right arrow symbols.
12	Then press ENT / UTIL . The LCD will display the 50P protection function corresponding to selected element (#2 in this example).	 The LCD screen displays "50PABC #2" in a green box with a red border. Above the box is a black button with "ENT" and "UTIL" in white. The screen also shows left and right arrow symbols.

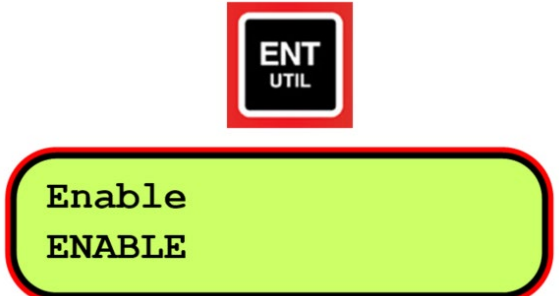
13	Press the RIGHT arrow once. The LCD will show the 51P function.	 
14	Then press ENT / UTIL . The LCD will show the first setting of 51P function.	 
15	Press the DOWN arrow until the LCD shows the 51P Curve option.	 
16	Then press ENT / UTIL . The LCD will show a cursor under the curve name indicating that the Change Mode is active.	 

17	Press UP and DOWN arrows to select the desired curve.	 Curve 51PABC #2 IEEE Extr Inv
18	Once the display shows the desired curve, press ENT / UTIL . The new curve has been selected and saved into the unit.	 Curve 51PABC #2 IEEE Extr Inv
19	Press the EXIT button as necessary to navigate back to the main screen.	 BECKWITH ELECTRIC P1 M-7679
End of Procedure.		

Change Recloser Settings via Front Panel (HMI)

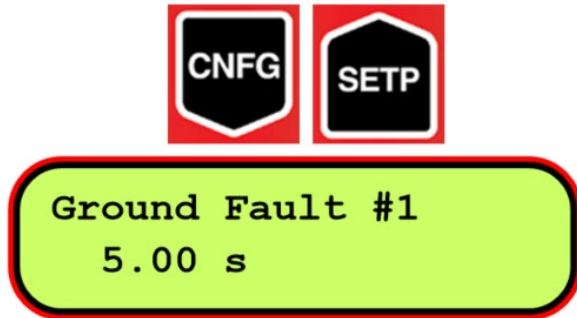
1	From the Main Screen, press SETP button.	
2	The LCD will show SETPOINTS . Press the ENT / UTIL button to enter the SETPOINTS menu.	
3	The LCD will show PROFILE . Press the ENT / UTIL button.	
4	The LCD Will show Edit Profile and will show below Profile 1 . Press ENT / UTIL .	

5	The LCD will show a cursor under the Profile name indicating that the Change Mode is active. Press UP and DOWN arrows to select the desired Profile for editing.	  
6	Then press ENT / UTIL . The LCD will display the selected Profile.	 
7	Press EXIT button once. The LCD Will show PROFILE .	 
8	Press RIGHT arrow once. The LCD will display 79 Recloser P1 .	 

9	Then press ENT / UTIL . The LCD will display 79ABC .	 The LCD screen shows a menu with 'ENT' and 'UTIL' options. Below the menu, the display shows '79ABC' with left and right navigation arrows.
10	Press ENT / UTIL . The LCD will display the 79 Recloser settings.	 The LCD screen shows a menu with 'ENT' and 'UTIL' options. Below the menu, the display shows 'Enable' and 'ENABLE'.
11	Press UP and DOWN arrows to move between all the 79 Recloser settings. ENABLE: Enable / Disable 79 function.	 The LCD screen shows two menu options: 'CNFG' and 'SETP'. Below the menu, the display shows 'Enable' and 'ENABLE'.
12	Press ENT / UTIL . The LCD will show a cursor under the setting name indicating that the Change Mode is active. Use the UP and DOWN arrows to move between the available options, then press ENT / UTIL .	 The LCD screen shows two menu options: 'CNFG' and 'SETP'. Below the menu, the display shows 'Enable' and 'ENABLE' with a cursor under the 'ENABLE' text.

13	Ground Precedence: When enabled, the residual overcurrent functions will have precedence over the phase overcurrent function. In case of an unbalance or ground fault only the residual function will operate and will be ruled by the ground operations to lockout setting.	 Ground Precedence DISABLE
14	Sequence Coordination: Where there are two reclosers in series the Sequence Coordination prevents unnecessary trips of the upstream recloser for a fault beyond the down line recloser. As long as the down line recloser clearing curves are selected to be faster than the minimum response time curves on the upstream recloser, if Sequence Coordination is enabled, each time the down line recloser trips, the upstream recloser only increments reclosing counts without tripping up to the number of trips selected by the user. A sequence coordination event is generated when an overcurrent function has picked up and then dropped out before the delay timer expired (before the function operates). To enable, press ENT / UTIL and select the number of operations for which the function must be enabled.	 Sequence Coord None

15	Max Phase Trips: If there is a permanent phase fault, the M-7679 R-PAC will perform a reclosing sequence. Once the maximum number of phase trips has been reached, the unit will go to Lockout state.	
16	Max Ground Trips: If there is a permanent ground / residual fault, the M-7679 R-PAC will perform a reclosing sequence. Once the maximum number of ground / residual trips has been reached, the unit will go to Lockout state.	
17	Rst Time Reclose: The M-7679 R-PAC will start counting the Reset Time after Auto Reclose time after an auto reclose operation is done within a reclosing sequence. If during this reset timer any overcurrent fault exists, the reclosing sequence will continue normally: the M-7679 R-PAC will perform the corresponding timing and tripping. Now, if during this reset timer no overcurrent is detected, the actual reclose sequence will be terminated and the M-7679 R-PAC will remain closed, the timer will reset to zero and the recloser will be ready for the next reclosing sequence.	

18	Rst Time Lockout: If the M-7679 R-PAC is open in Lockout state, the only way to close it is through a manual close command. The actual closure of the breaker will cause this reset timer to start counting. If any overcurrent function trips during this Reset Time from Lockout timer the M-7679 R-PAC will perform the corresponding trip but the unit will go directly to Lockout (reclosing sequence will not be performed). If the Reset Time from Lockout expires without sensing any overcurrent fault, the recloser will remain closed, the timer will reset to zero and the recloser will be ready for the next reclosing sequence.	
19	Phase Fault #1: This setting corresponds to the first reclose interval for the Phase reclosing sequence.	
20	Ground Fault #1: This setting corresponds to the first reclose interval for the Residual / Ground reclosing sequence.	

21	Press UP and DOWN arrows to move between the second, third and fourth Recloser intervals for both Phase and Ground / Residual.	Phase Fault #2 10.00 s Phase Fault #3 2.00 s Ground Fault #2 10.00 s Ground Fault #3 2.00 s Phase Fault #4 10.00 s Ground Fault #4 10.00 s
22	The new settings have been saved into the unit. Press the EXIT button as necessary to navigate back to the main screen.	EXIT WAKE BECKWITH ELECTRIC P1 M-7679
End of Procedure.		



This Page Left Intentionally Blank



[6190 118th Avenue North](#)
[Largo, FL 33773-3724 U.S.A.](#)



[BeckwithElectric.com](#)
[HubbellPowerSystems.com](#)