

M-7679 R-PAC QUICK REFERENCE GUIDE

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

Programming Settings using Recloser Wizard



Required Tools:

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

Download the latest **IPScom software** at:

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

Required Documentation:

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

Download the latest **M-7679 Instruction Book** at:

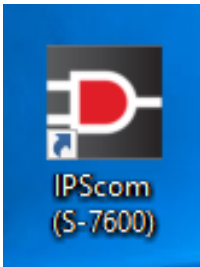
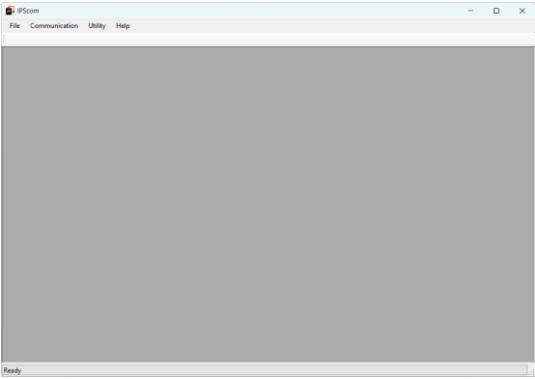
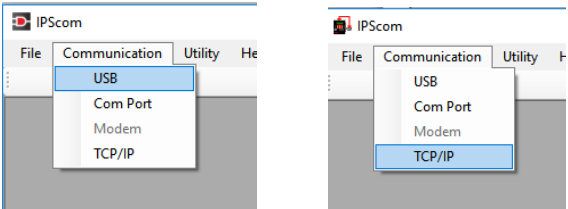
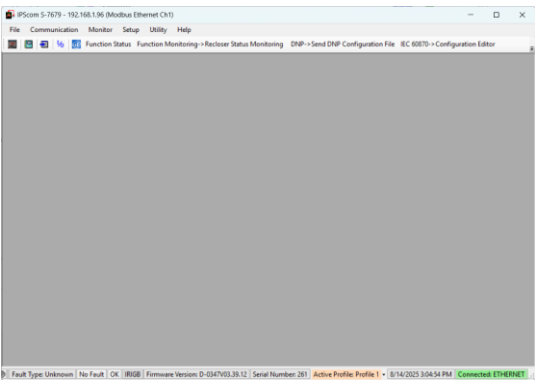
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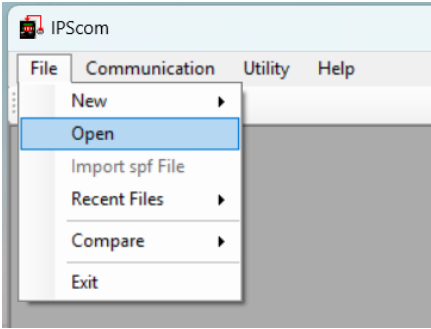
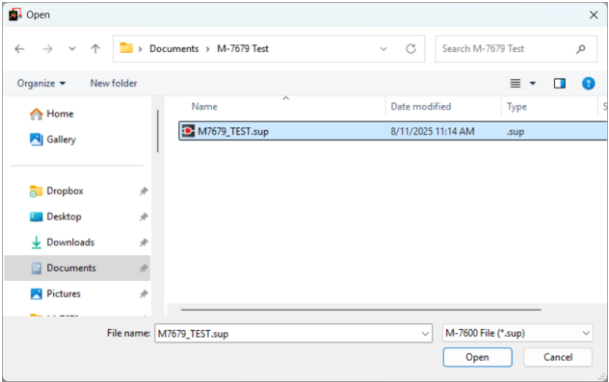
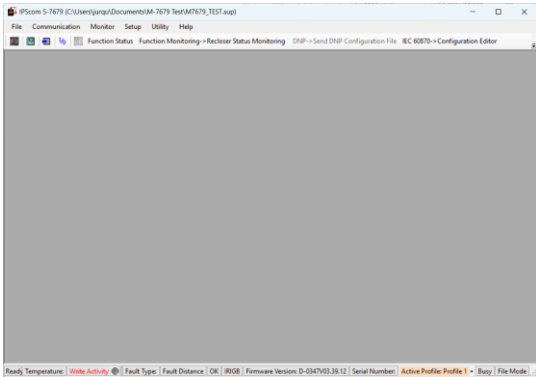
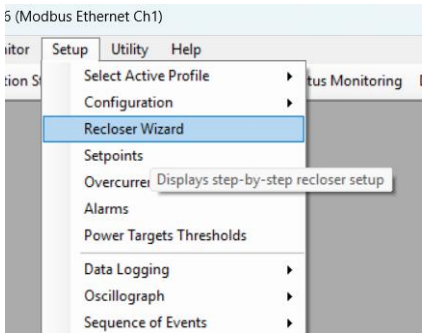


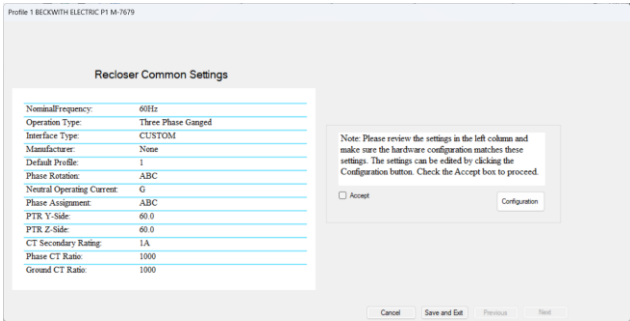
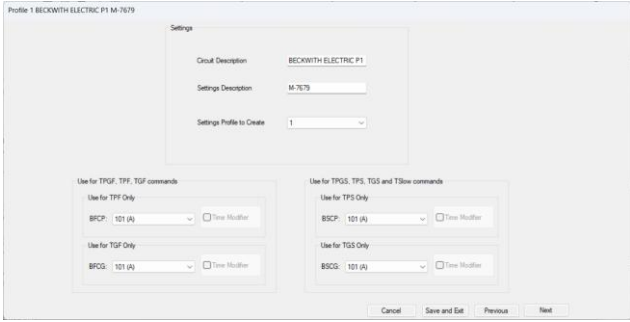
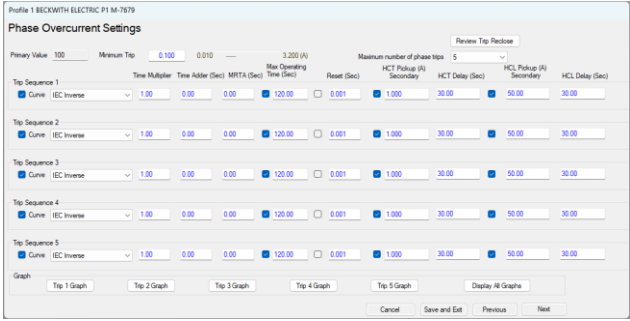
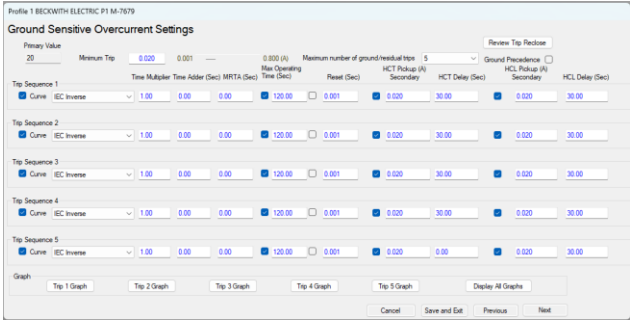
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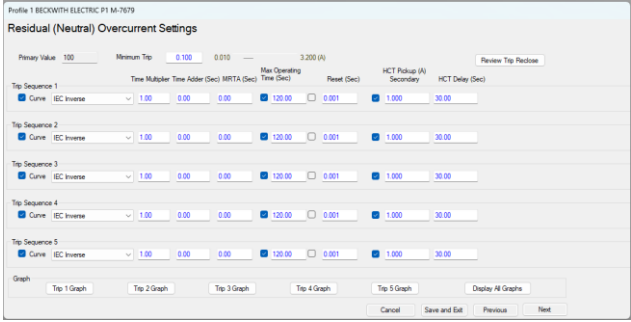
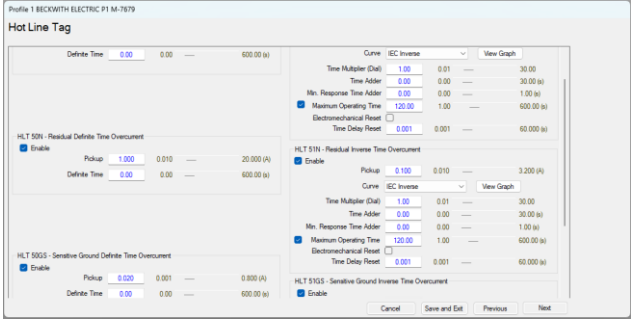
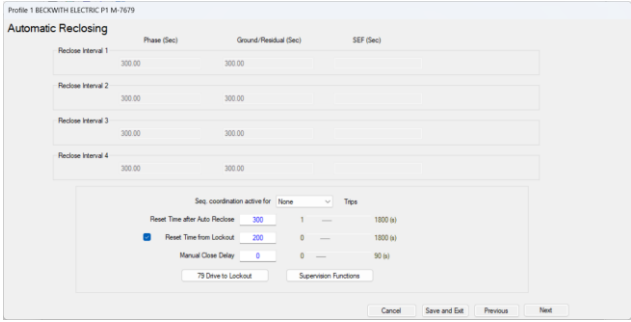
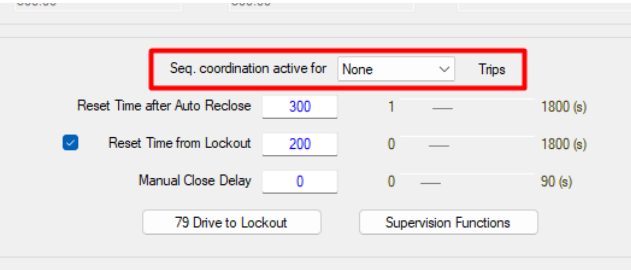
Programming Settings using Recloser Wizard

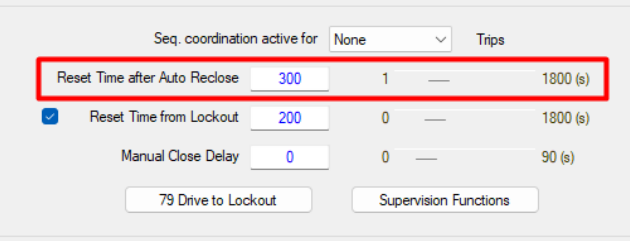
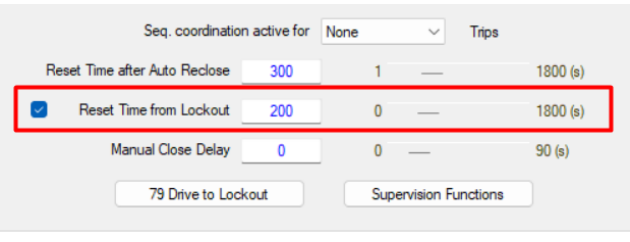
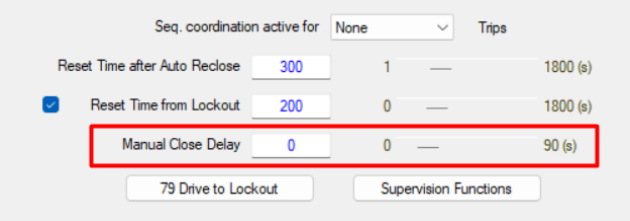
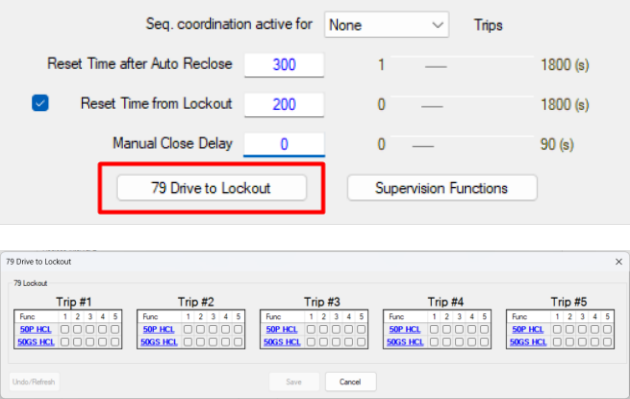
The Recloser Wizard is an intuitive tool designed to help novice users in setting up the M-7679 R-PAC device and configuring the 79 Automatic Reclose functions. It simplifies the process by requiring only the essential settings needed for proper recloser operation. This document provides step-by-step guidance on using the Recloser Wizard to maximize its benefits with minimal effort and technical expertise.

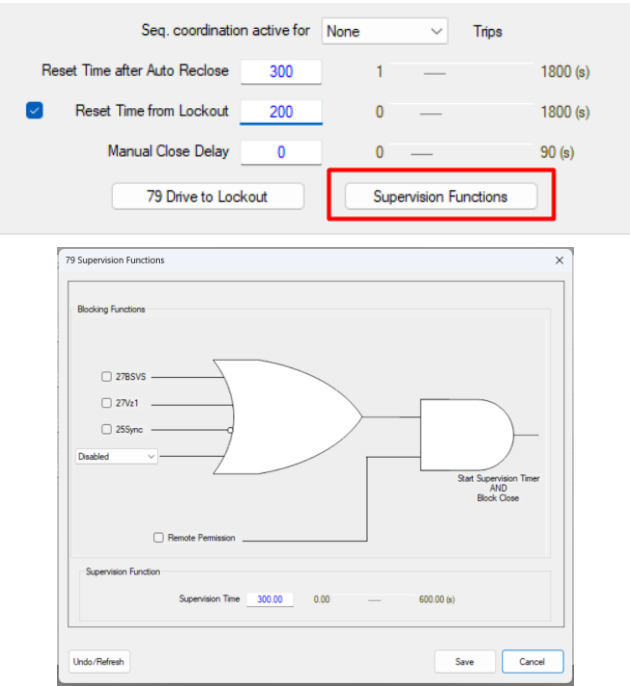
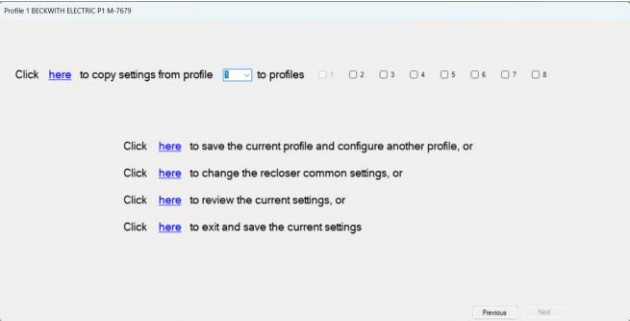
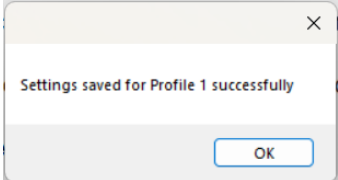
1	Start IPScom Software by double-clicking the corresponding shortcut.	
2	IPScom will display the IPScom Main dialog screen.	
3	If the process will be performed while connected to an M-7679 R-PAC unit, establish a connection to the unit using either USB or TCP/IP mode.	
4	Once the connection is established, IPScom will display the Connected version of the IPScom main screen. Proceed to Step 8.	

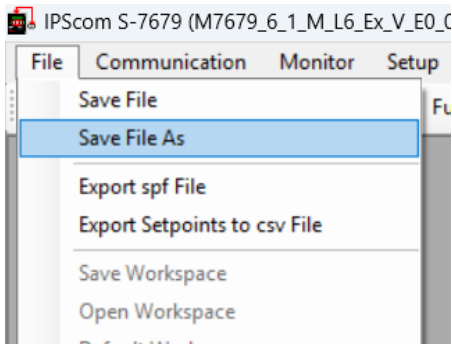
5	If the process will be performed without a connection to an M-7679 R-PAC unit, navigate to File > Open to access an existing configuration file.	
6	IPScom will display the Open Dialog screen. Find the required .SUP file and select OPEN .	
7	IPScom will display the Not-Connected version of the main screen.	
8	Go to Setup / Recloser Wizard .	

9	IPScom will display the Common Settings screen, which will show the system settings of the M-7679 R-PAC. The user should carefully review the displayed settings to ensure they match the hardware configuration of the unit. If any settings need to be changed, click the Configuration button, to open the System Setup screen. After verifying or updating the system settings, select the Accept checkbox to confirm. Click Next to proceed.	
10	The Profile screen allows the user to edit the User Lines associated with each individual profile, as specified by the Settings Profile to Create field, which indicates the profile currently being configured. In addition, this screen provides options to configure the Fast and Slow Qualifiers settings. Click Next to proceed.	
11	The Phase Overcurrent Settings screen allows the user to select Phase Overcurrent functions that will trigger a Recloser Trip signal when the Minimum Trip setting threshold is exceeded. Each Trip sequence includes dedicated overcurrent protection elements such as 50P, 51P and High Current Lockout (HCL). If no Trip Sequence is selected, IPScom will display a red warning message. Click Next to proceed.	
12	The Ground Sensitive Overcurrent Settings screen allows the user to select Ground Overcurrent functions that will trigger a Recloser Trip signal when the Minimum Trip setting threshold is exceeded. Each Trip sequence includes dedicated overcurrent protection elements such as 50G/GS, 51G/GS and High Current Lockout (HCL). If no Trip Sequence is selected, IPScom will display a red warning message. Click Next to proceed.	

13	The Residual (Neutral) Overcurrent Settings screen allows the user to select Residual Overcurrent functions that will trigger a Recloser Trip signal when the Minimum Trip setting is exceeded. Each Trip sequence includes dedicated overcurrent protection elements such as 50N, 51N and High Current Lockout (HCL). If no Trip Sequence is selected, IPScom will display a red warning message. Click Next to proceed.	
14	Hot Line Tag Settings screen allows the user to set independent overcurrent settings specifically for the Hot Line Tag (HLT) function. When the HLT function is enabled, the M-7679 R-PAC switches to these reserved settings and, in the event of a fault-induced trip, immediately goes to lockout. While HLT is active, it is not possible to issue a close command from the front panel HMI or via SCADA. Click Next to proceed.	
15	Automatic Reclosing screen allows the user to modify the Reclose Intervals between trip and automatic reclose of the breaker. Each type of fault has its own Reclose Interval.	
16	Sequence Coordination settings can be configured in this screen. This feature is essential when multiple reclosers are connected in series. It prevents unnecessary tripping of the upstream recloser caused by faults that should be cleared by the downstream device. To set Sequence Coordination select the number of desired trips from the corresponding dropdown menu. For additional details on Sequence Coordination go to 7679 Recloser Function Application Guide document.	

17	The user must set the Reset Time after Auto Reclose timer. After an auto recloser operation, the M-7679 R-PAC starts counting this timer. If an overcurrent fault occurs during this period, the reclosing sequence continues: the M-7679 R-PAC performs the corresponding timing and issues a trip command. If no fault is detected, reclosing sequence ends: the M-7679 R-PAC remains closed, the timer resets to zero and the recloser becomes ready for the next sequence.	
18	The user can enable or disable the Reset Time from Lockout timer via the corresponding checkbox. When the M-7679 R-PAC is in Lockout state, it can only be closed manually, either locally or remotely. Upon closure, the timer starts counting. If any overcurrent fault is detected during this period, the device trips and goes to Lockout without initiating a reclosing sequence. If no fault occurs, the timer expires, resets to zero and the recloser remains closed, ready for the next reclosing cycle.	
19	When the Manual Close Delay is set to a value other than zero, the device waits for the specified delay before activating the Close output contact.	
20	By selecting the 79 Drive to Lockout button, IPSCOM displays the corresponding screen, allowing the user to choose the reclosing sequence trips where the High Current Lockout function will drive the device to Lockout state.	

21	Selecting the Supervision Functions button opens the 79 Supervision Functions screen, where the user can configure the logic and Supervision Time to for the 79 Drive to Lockout blocking function. If any selected supervisory function is tripped, the recloser state remains unchanged, blocking the reclose operation. To advance to the next cycle state, all selected supervisory functions must return to normal (dropout) before a close command is issued. If any supervision function remains tripped after the Supervision Time elapses, the unit goes to Lockout. In the Automatic Reclosing window, click Next to proceed.	
22	The last screen of the Recloser Wizard allows the user to perform the following: • Save the current profile and configure another profile • Change the recloser common settings • Review the current settings • Exit and save the current settings	
23	After selecting the option to exit and save the current settings, IPScom displays a confirmation message indicating the profile was successfully saved. The Recloser Wizard then closes automatically.	

24	If the process is performed in offline mode (without connecting to a unit), all settings are saved to a temporary file. To retain them, go to File > Save File As. IPScom will display a dialog box allowing the user to assign a name and save the .SUP file. If the process is performed while connected to a unit, all settings are automatically saved to the device.	 The screenshot shows the IPScom S-7679 (M7679_6_1_M_L6_Ex_V_E0_C) application window. The 'File' menu is open, displaying options: 'Save File', 'Save File As' (highlighted with a blue selection bar), 'Export spf File', 'Export Setpoints to csv File', 'Save Workspace', and 'Open Workspace'.
End of Procedure.		



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6190 118th Avenue North
Largo, FL 33773-3724 U.S.A.



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