



M-7679 R-PAC QUICK REFERENCE GUIDE

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

Setting up, Loading and Reviewing SOE



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.

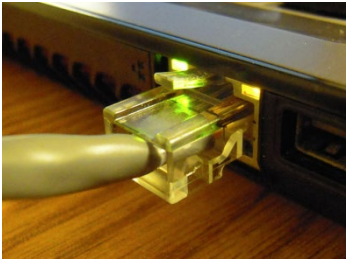
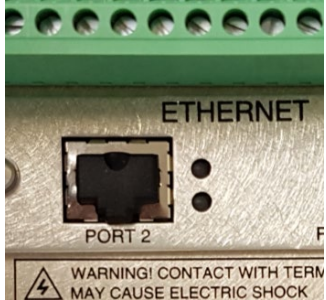
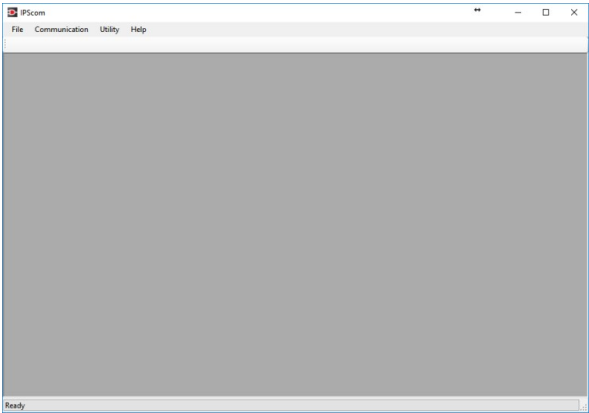
Latest version of M-7679 Instruction Book can be downloaded from:

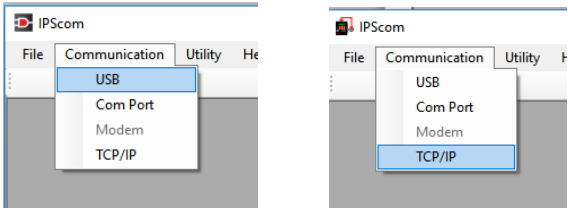
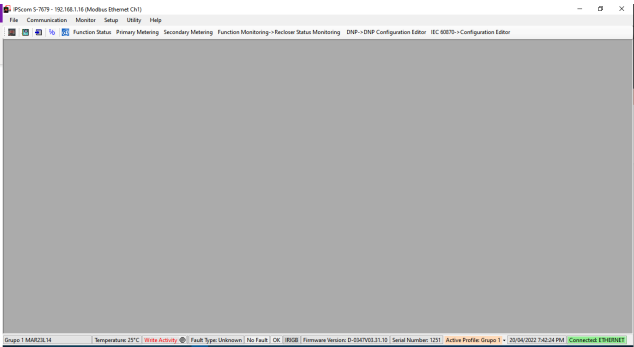
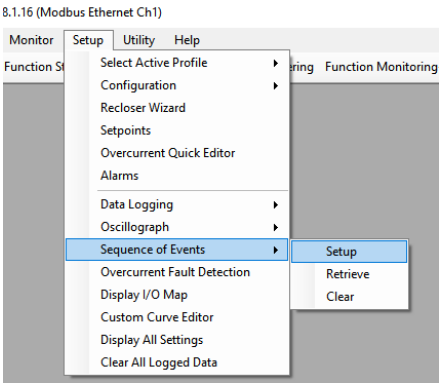
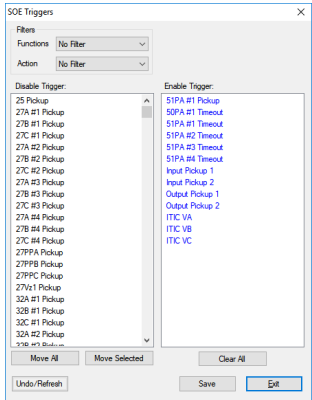
<https://beckwithelectric.com/products/m-7679/>



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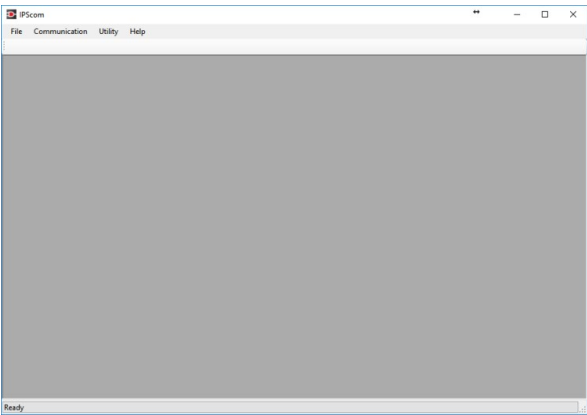
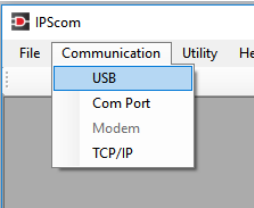
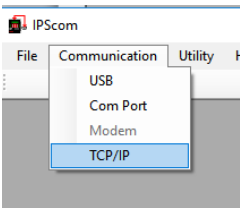
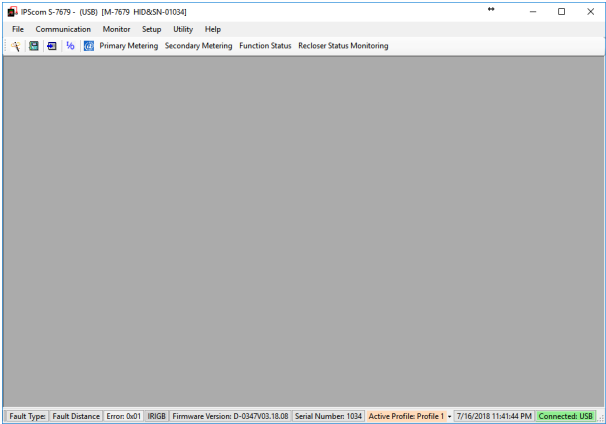
Setting up Sequence of Events (SOE)

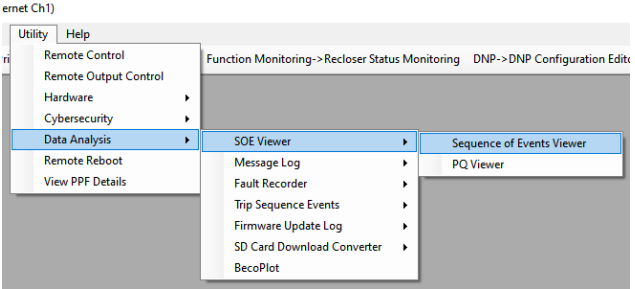
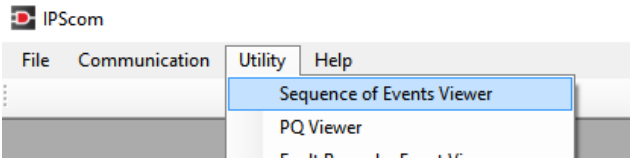
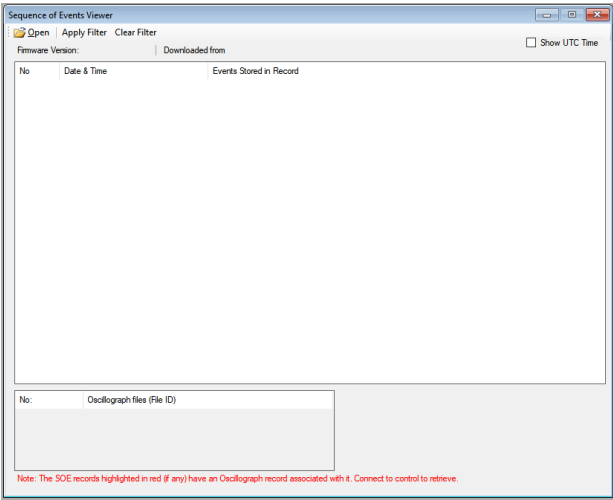
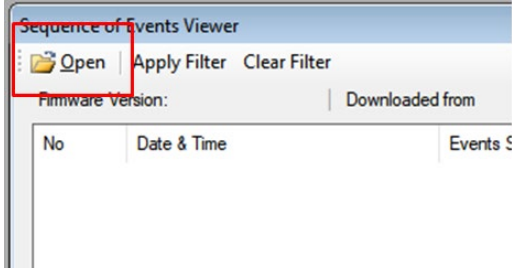
1	Plug the communications cable into the host computer port (Ethernet or USB).	 
2	Ensure the control is energized and plug the corresponding cable into the port on the control.	 
3	Start IPScom Software by double-clicking the corresponding shortcut.	
4	IPScom will display the IPScom Main dialog screen.	

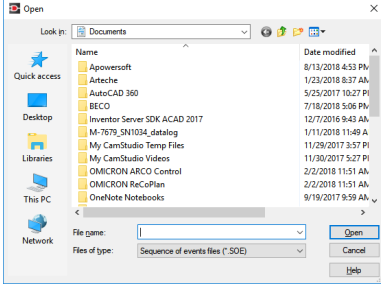
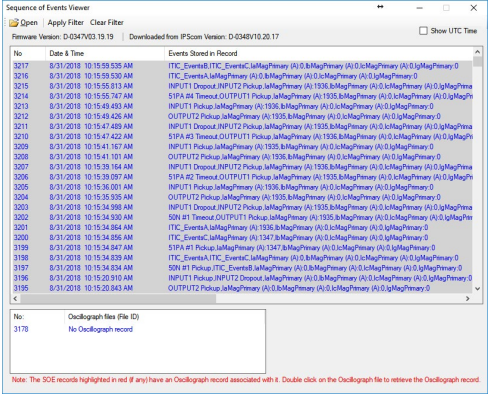
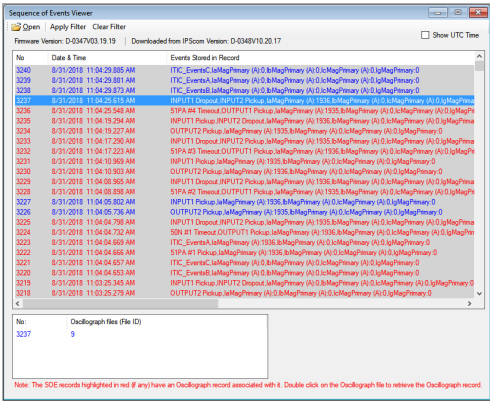
5	Connect to the M-7679 R-PAC using USB or TCP/IP modes.	
6	Once the connection has been established, IPScom will display the connected version of the IPScom Main Screen.	
7	Sequence of Events will include the signals that have been previously programmed in the unit. To modify (add or remove) SOE trigger signals, connect to the unit, and go to Setup / Sequence of Events / Setup	
8	IPScom will open the SOE Trigger screen which will allow the user to enable or disable the SOE trigger signals. To enable a trigger, scroll through the trigger listing on the left side of the screen and drag the desired triggers to the Enable Trigger section on the right side of the screen. Then, click on Save and Exit . After this programming, the relay will record all the events related with the programmed triggers.	

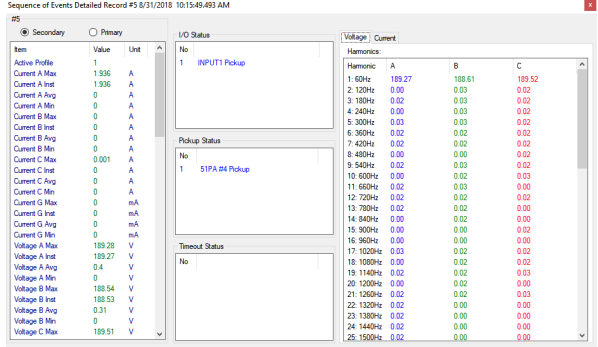
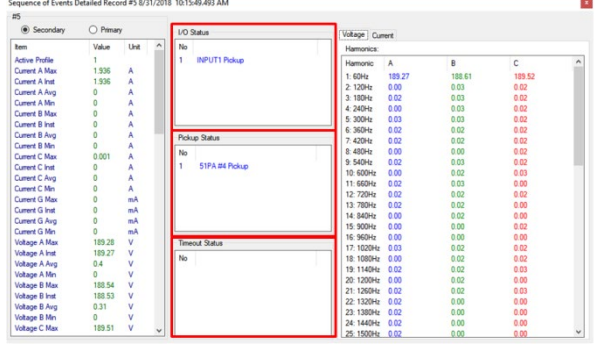
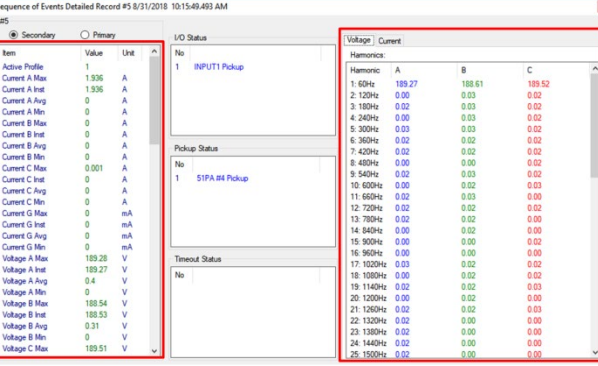
End of Procedure.

Loading and Reviewing SOE

1	Start IPScom Software by double-clicking the corresponding shortcut.	
2	IPScom will display the IPScom Main dialog screen.	
3	If the process is going to be performed while connected to a M-7679 R-PAC unit, connect to the unit using USB or TCP/IP modes. (Is not required to be connected to a unit to open a *.soe file).	 
4	Once the connection has been established, IPScom will display the Connected version of the IPScom Main Screen.	

5	Select Utility / Data Analysis / SEO Viewer / Sequence of Events Viewer . Go to step 7.	
6	If the process is going to be performed without connecting to a M-7679 R-PAC unit, from the IPScom main dialog screen (File not open or not connected mode) go to Utility / Sequence of Events Viewer .	
7	IPScom will display the Sequence of Events Viewer tool. This tool allows the user to view detailed Sequence of Events Record parameters.	
8	To open a Sequence of Events file, select Open from the top left corner of the screen.	

9	IPScorn will display the Open dialog screen. Choose the desired *.soe file and click on Open button.	
10	The viewer displays all events included in the selected file.	
11	If an event record is highlighted in Red, this indicates that an Oscillographic record is associated with this event, and it will be listed in the bottom section of the window. When connected to a unit, double-click on the Oscillograph record to retrieve the file.	

12	In the Sequence of Events viewer, double-click on any event to display the “Sequence of Events Detailed Record”. This screen shows specific information of that particular event:	
13	The SOE Detailed Record includes the following information: - I/O Status: Input and output signals that were active at the time the SOE capture was initiated. - Pickup Status: Pickup signals that triggered the SOE Recorder. - Timeout Status: Timeout signals that triggered the SOE Recorder.	
14	Also, the SOE Detailed Record includes the following parameters: - Active Profile - Current (A,B,C,N) - Voltage (A,B,C,N) - Voltage (Pos, Neg, Zero) - Current (Pos, Neg, Zero) - Real Power (A,B,C,3Ph) - Reactive Power (A,B,C,3Ph) - Power Factor (A,B,C,3Ph) - Apparent Power (A,B,C,3Ph) - Frequency/Frequency Change - ITIC Events (VA, VB, VC) - Operation Counters - THD/TDD - Fault Distance / Fault Type - Control Status - Pickup Status - Timeout Status - Voltage & Current Harmonics	

End of Procedure.



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



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