

## WattsOn MKII Firmware Update Procedure

## **Requirements:**

- A Windows PC with the ELKOR Modbus Commander installed.
- A Reliable means to communicate with the meter on either Modbus RTU(RS-485) or Modbus TCP(Ethernet).
- WattsOn MKII firmware file(with extension ".frm")

## **Procedure:**

- 1. Connect the meter to the appropriate (dependent on meter options) communication network (RS-485 or Ethernet).
- 2. Open Modbus Commander and configure the communication to the meter and connect to it.



3. Verify communication is working by opening one of the meter register views such as "Configuration" or "Real Time Parameters" and see that it displays data without errors. *After meter communication has been confirmed close all register views before moving to the next step.* 

Elkor ECM							
Elkor WattsOn +							
Elkor WattsOn-Merk 1 +	Energy Parameters						
SunSpec Device	Revenue Energy Parameters Real-Time Parameters						
	Configuration						
	Relay Configuration Scratchpad						
	Display Page Editor Logging Manager						
	Firmware Update	WattsOn-Mark I Real-1	ime Parameters	Marine A	120 40 14	10000	222.241
		Comere A.	6.0327 M	Votage A	120.40 9	Votage Ad	233 24 V
		CONVER B	21.4304 A	votage o	110.75 9	vorage bu	110.70 ¥
		Current L	0.0000 A	Votage C	0.00 V	Votage AL	120.47 V
		Current Average	5.44//A	Votage Average	13.75 V	Votage L-L Average	159.50 V
		Active Power A	0.762 kW	Reactive Power A	-0.064 kVAR	Apparent Power A	0.839 kVA
		Active Power B	2.519 kW	Reactive Power 8	0.126 kVAR	Apparent Power B	2.555 kVA
		Active Power C	0.000 kW	Reactive Power C	0.000 kVAR	Apparent Power C	0.000 kVA
		Active Power Total	3.281 kW	Reactive Power Total	0.062 kVAR	Apparent Power Total	3.394 kVA
		Quadrant A	4	Power Factor A	-0.9071	Votage Angle AB	179.7
		Quadrant B	1	Power Factor B	0.9856	Voltage Angle BC	0.01
		Quadrant C	1	Power Factor C	1.0000	Votage Angle AC	0.0*
		System Quechant	1	System Power Factor	0.9661	Voltage Average Angle	179.7*
				System Frequency	60.013 Hz		
				Skinn Western Preser	2.230 kW		



## Precsion. Innovation. Engineered.

4. Open the Firmware Updater and see that it detects the meter as shown

	Elkor i-Spy							
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5. In the Firmware Updater browse to the meter firmware file with the file extension ".frm".

Modbus Commander		
egisters Devices Format Setup Window (6)		
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6. Start the update by pressing the "Start Update" button and monitor the progress bar.



7. The upgrade is complete when the progress bar is 100% and status is "Update Complete"

