

RMU1 TRAINING



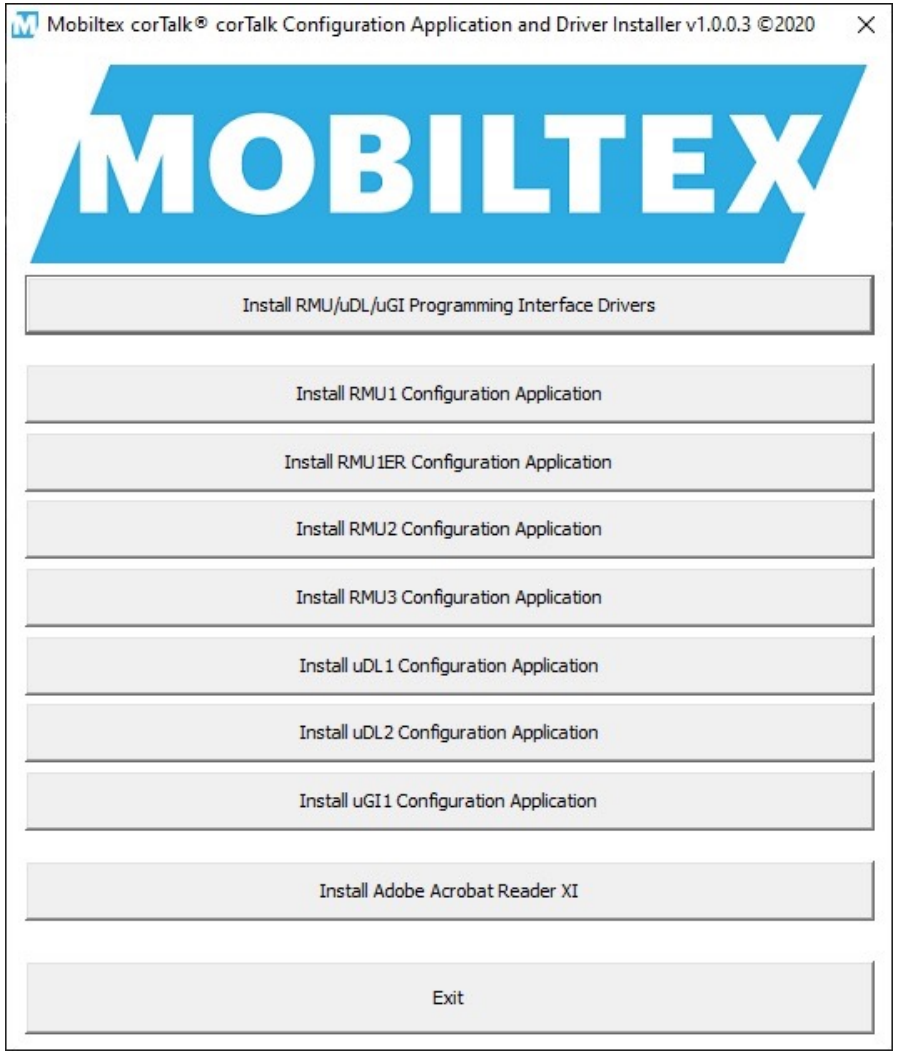
Preparing To Visit a Site

Tools for installation

- Multimeter
- Drill
- Drill bits
- Lockout/Tag out
- Wire cutters
- Wire strippers
- Crimping plyers
- Screw drivers
- Wiring kit
- RMU1 programmer (RMU1PGM or RMU1/2/3)
- Laptop or mobile device with configuration app installed
- Portable reference cell

RMU1 Configuration

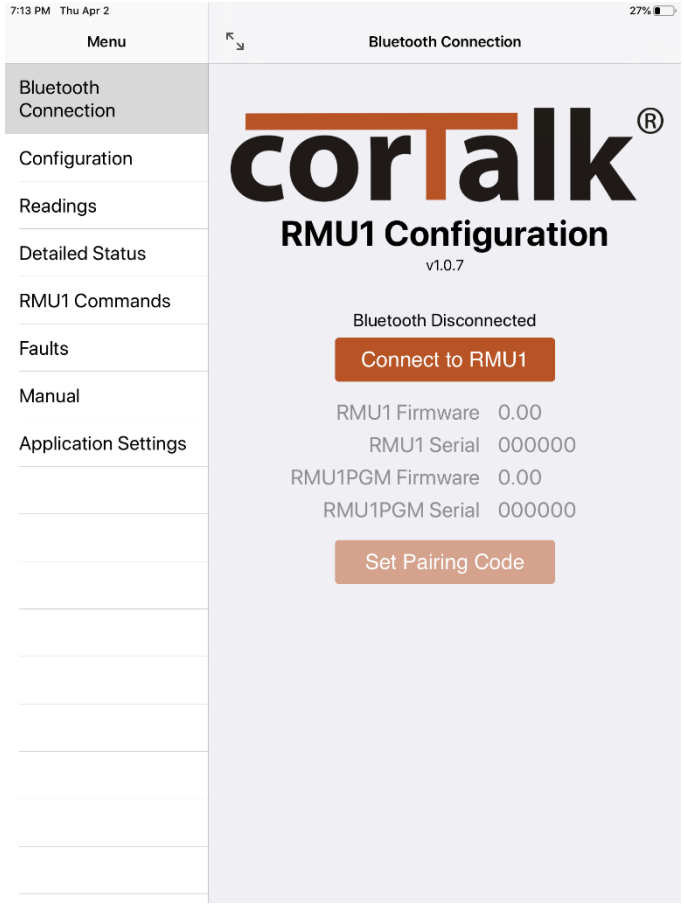
Install RMU1 Config App on your laptop.*
www.mobiltex.com/software/
*Must have Admin rights to install drivers.



MOBILTEX

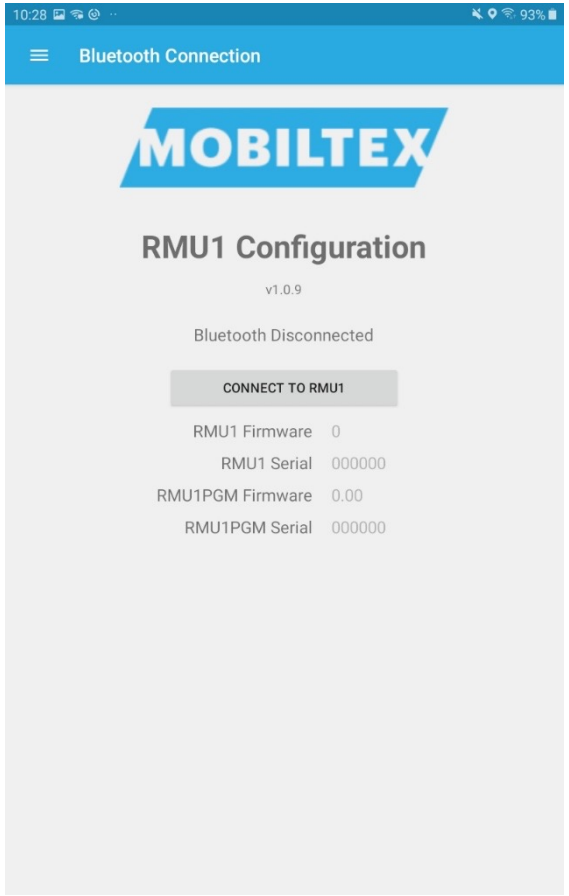
RMU1 Configuration

Install RMU1 Config App On Your IOS Device.



RMU1 Configuration

Install RMU1 Config App On Your Android Device.



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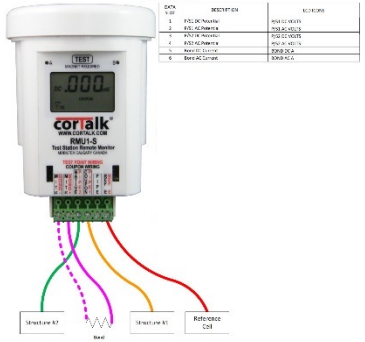
Installing The Hardware

MOBILTEX

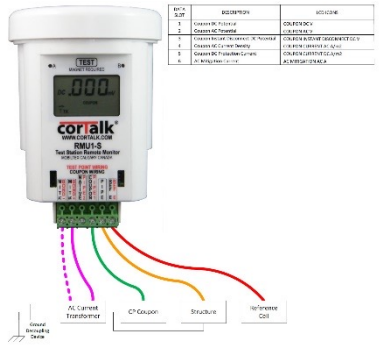
Installing The Hardware

Determine what it is you want to measure.

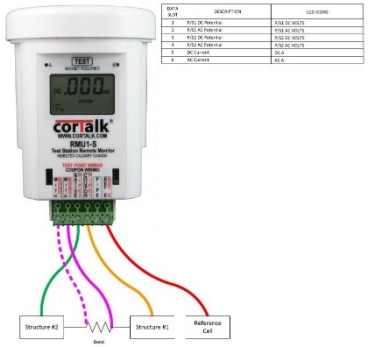
RMU1 Bond



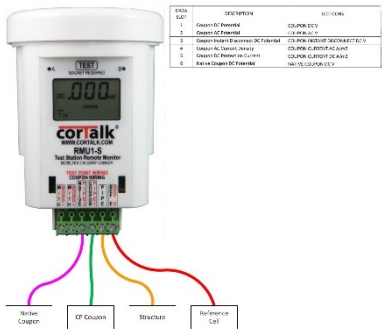
RMU1 Single Coupon w/AC Mitigation



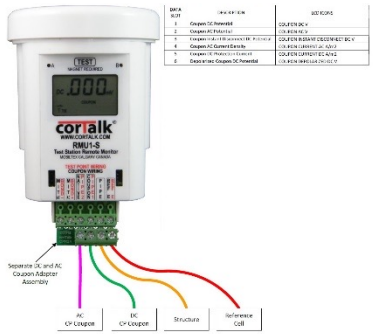
RMU1 Test Point



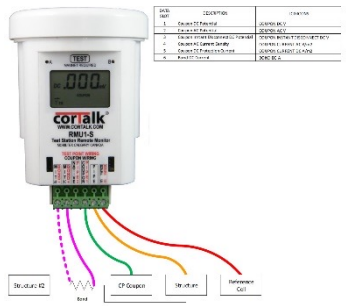
RMU1 Dual Coupon



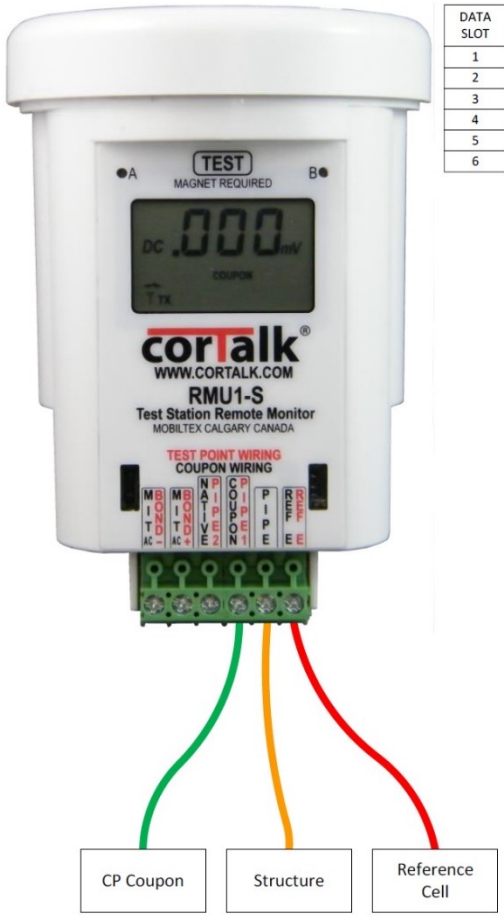
RMU1 Separate DC and AC Coupons



RMU1 Single Coupon w/DC Bond



RMU1 Single Coupon



DATA SLOT	DESCRIPTION	LCD ICONS
1	Coupon DC Potential	COUPON DC V
2	Coupon AC Potential	COUPON AC V
3	Coupon Instant Disconnect DC Potential	COUPON INSTANT DISCONNECT DC V
4	Coupon AC Current Density	COUPON CURRENT AC A/m2
5	Coupon DC Protection Current	COUPON CURRENT DC A/m2
6	Depolarized Coupon DC Potential	COUPON DEPOLARIZED DC V

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Installing The Hardware

The RMU1 is held on the test post with a single Philips screw.



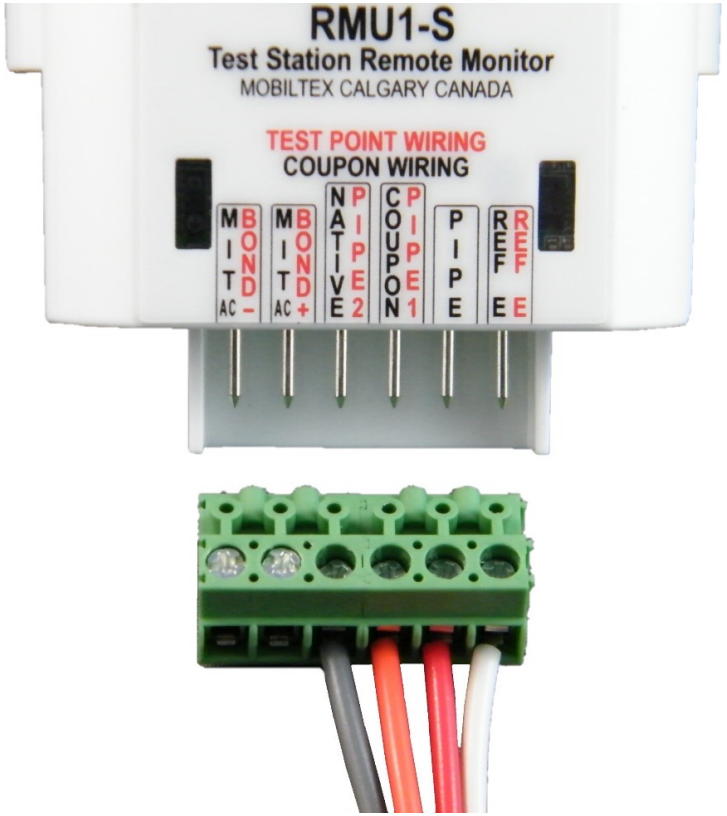
One or two spacers need to be installed so the test post lid will fit over the RMU1.



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Installing The Hardware

The green connector can be removed to make it easier to attach the wires.





The flex circuit replaces the wires and connects the RMU1 to the bolts on the back of the test station.

Placing a magnet on the area above the screen labeled **TEST** for 1-4 seconds will force a test transmission.



Screwing down the lid will turn on the RMU1.

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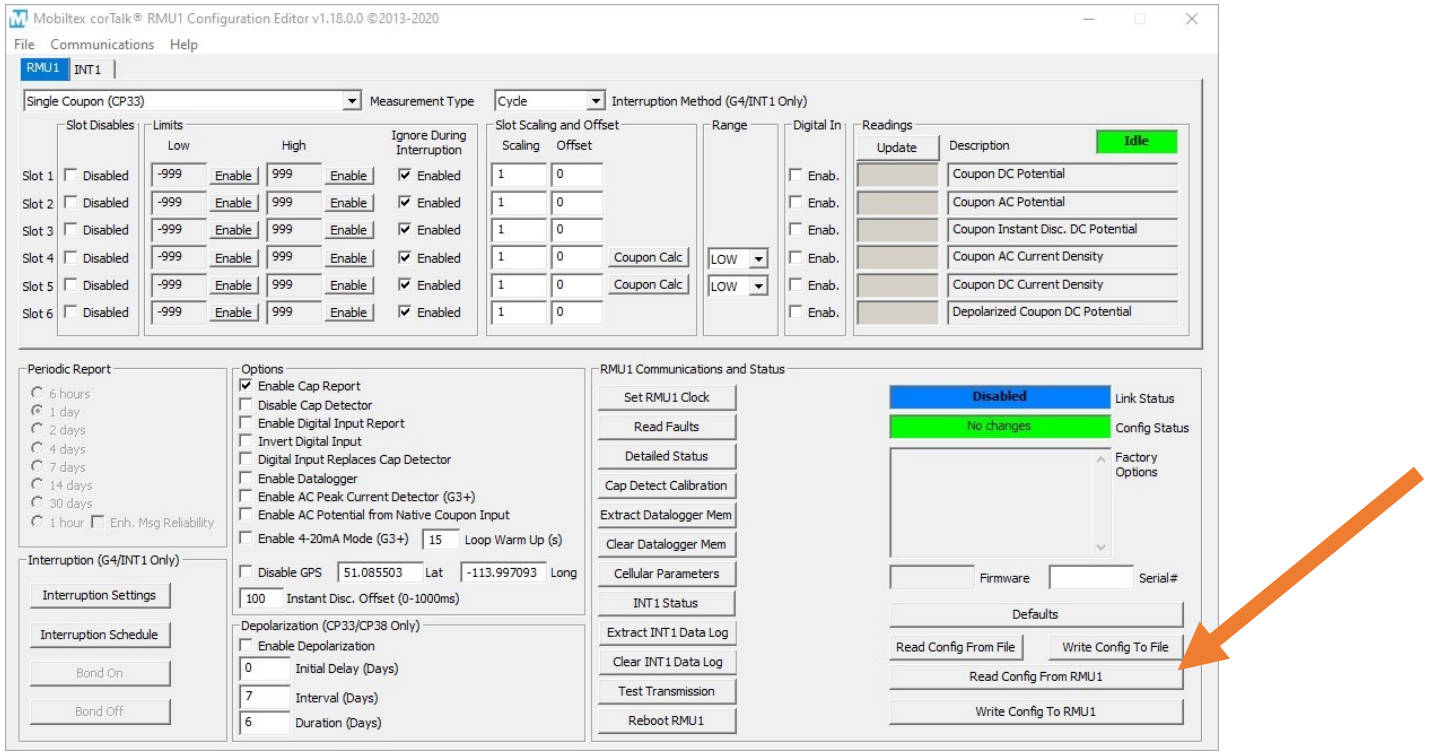
Configuring the RMU1 With a Laptop

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RMU1 Configuration

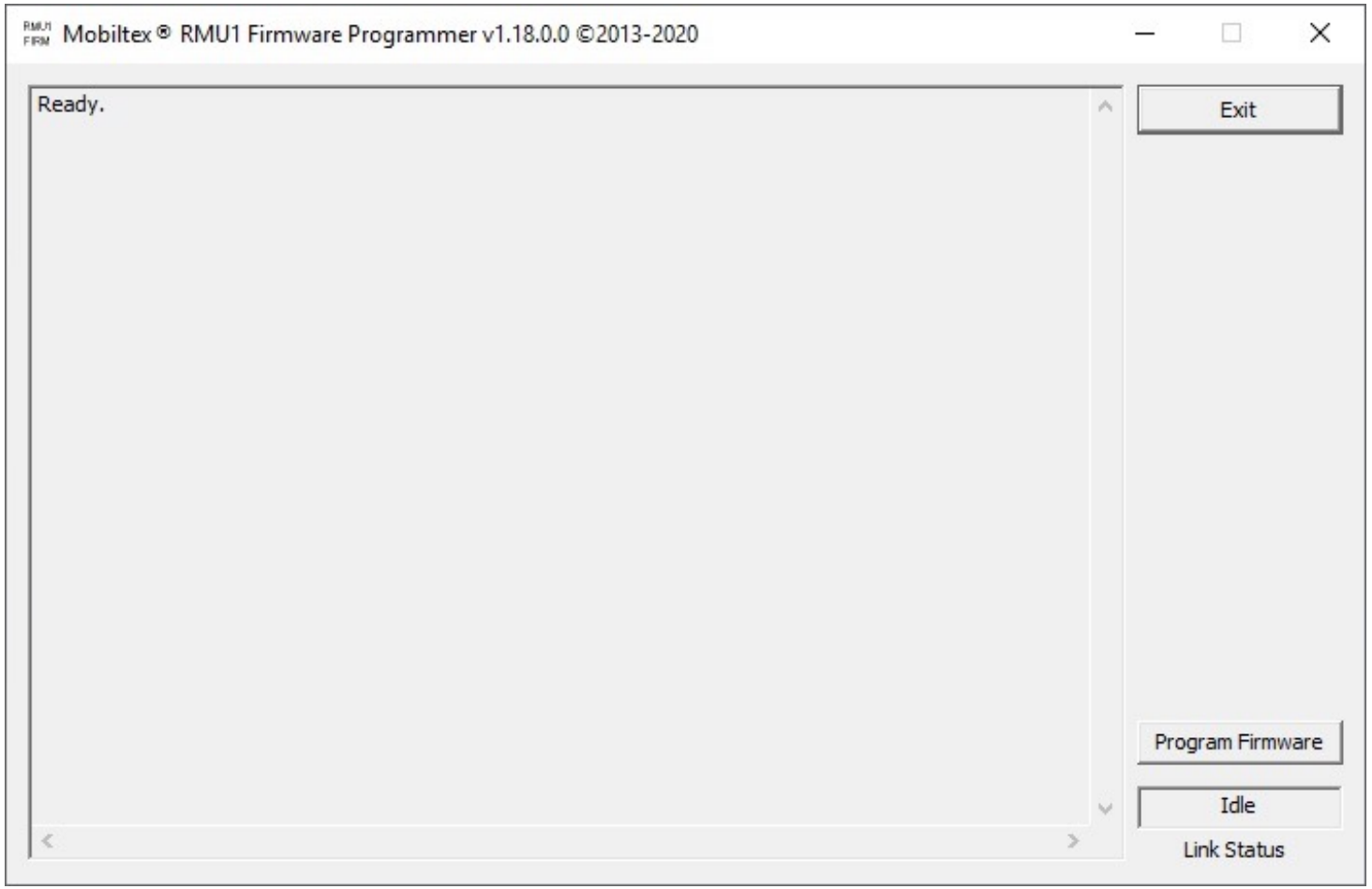
RMU1 Basic Configuration Overview

1. Read from RMU1.
2. Make configuration changes.
3. Write to RMU1.



RMU1 Configuration

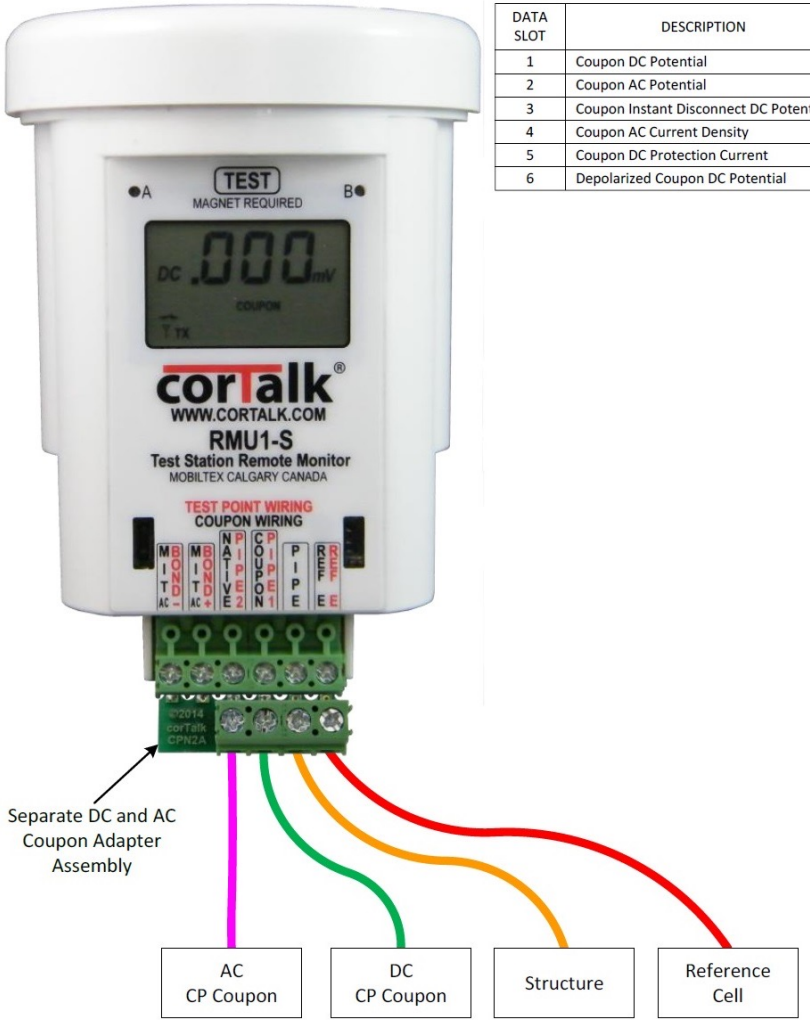
Update Firmware



If you get a warning about updating the firmware, close the app and open the firmware updater. Click on the Program Firmware button to update the firmware.

RMU1 Configuration

RMU1 Separate DC and AC Coupons

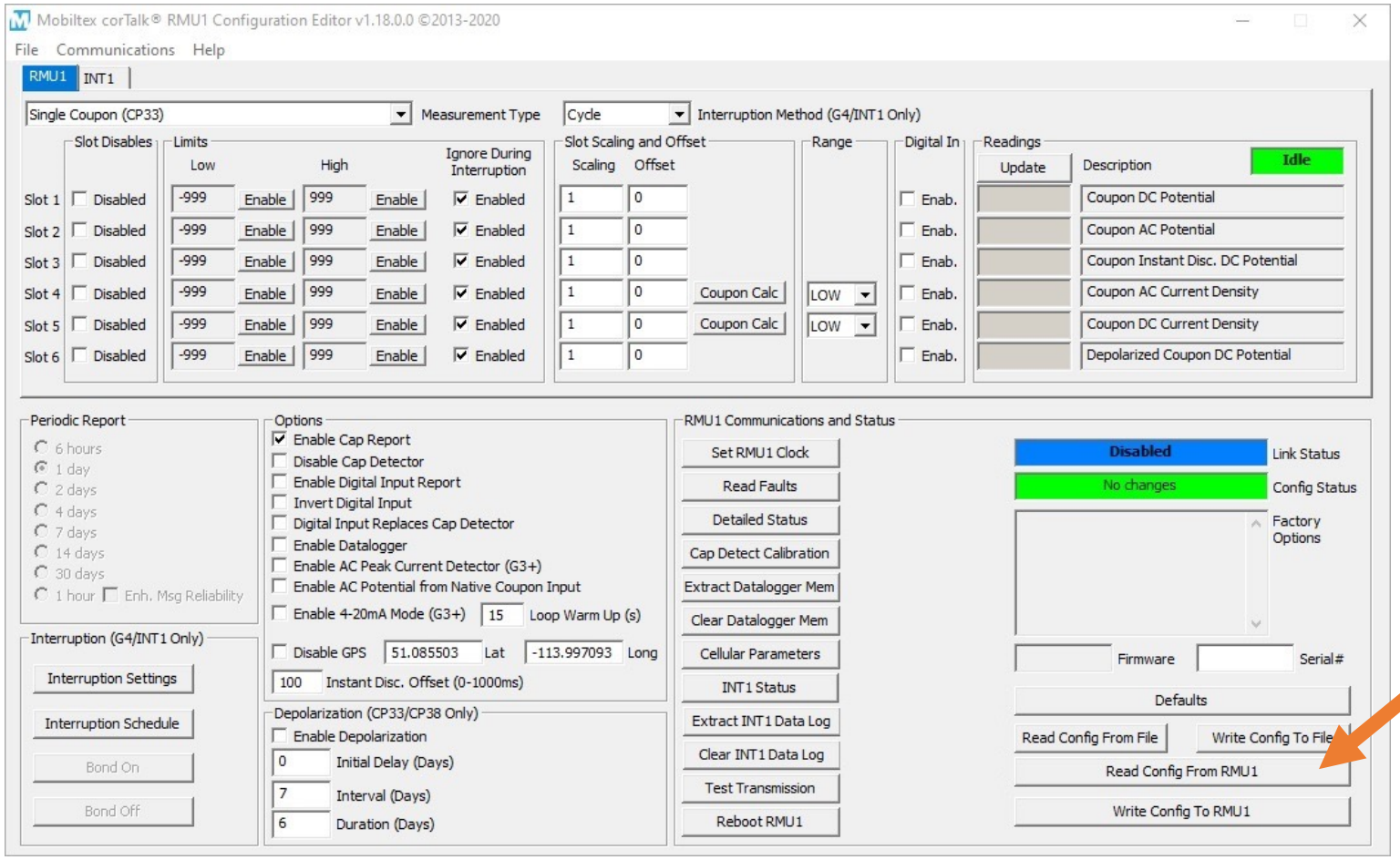


DATA SLOT	DESCRIPTION	LCD ICONS
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5	Coupon DC Protection Current	COUPON CURRENT DC A/m2
6	Depolarized Coupon DC Potential	COUPON DEPOLARIZED DC V

For this example, we are going to program the RMU for separate AC and DC coupons.

RMU1 Configuration

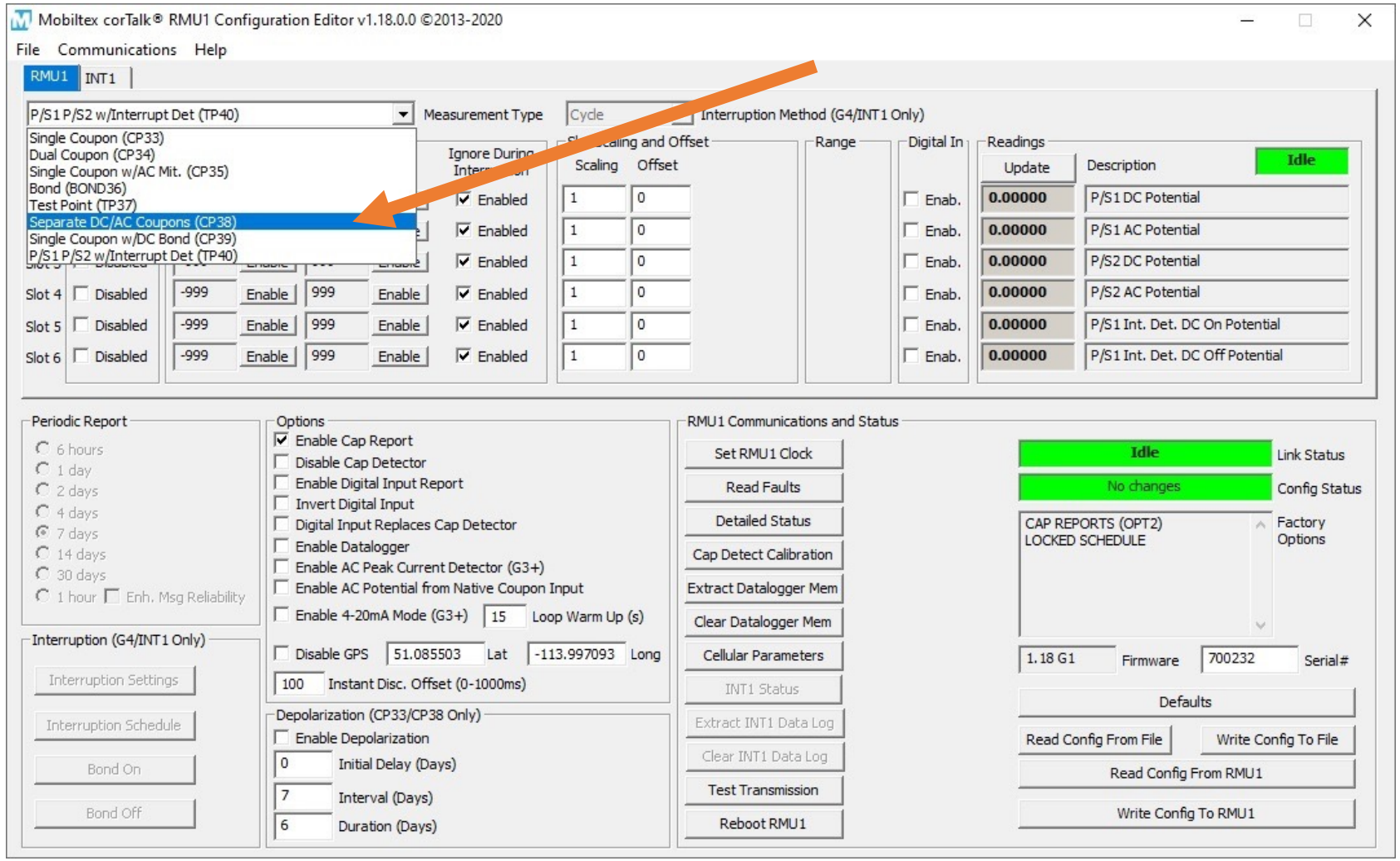
Configure An RMU1 Using The PC App



Press the **Read Config From RMU1** button to connect to the RMU1 and download the current settings in the RMU1 into the app.

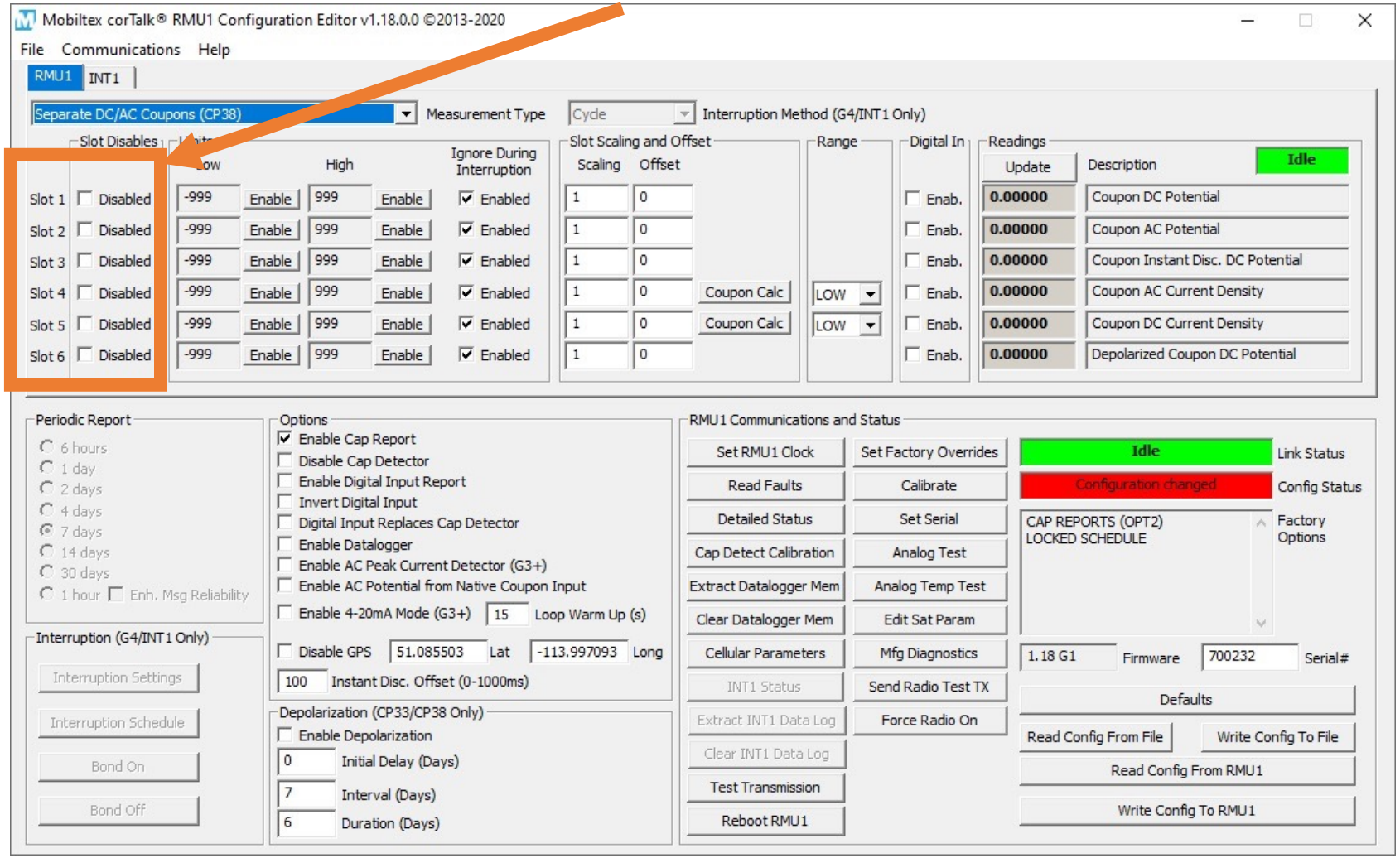
RMU1 Configuration

Select The Measurement Type



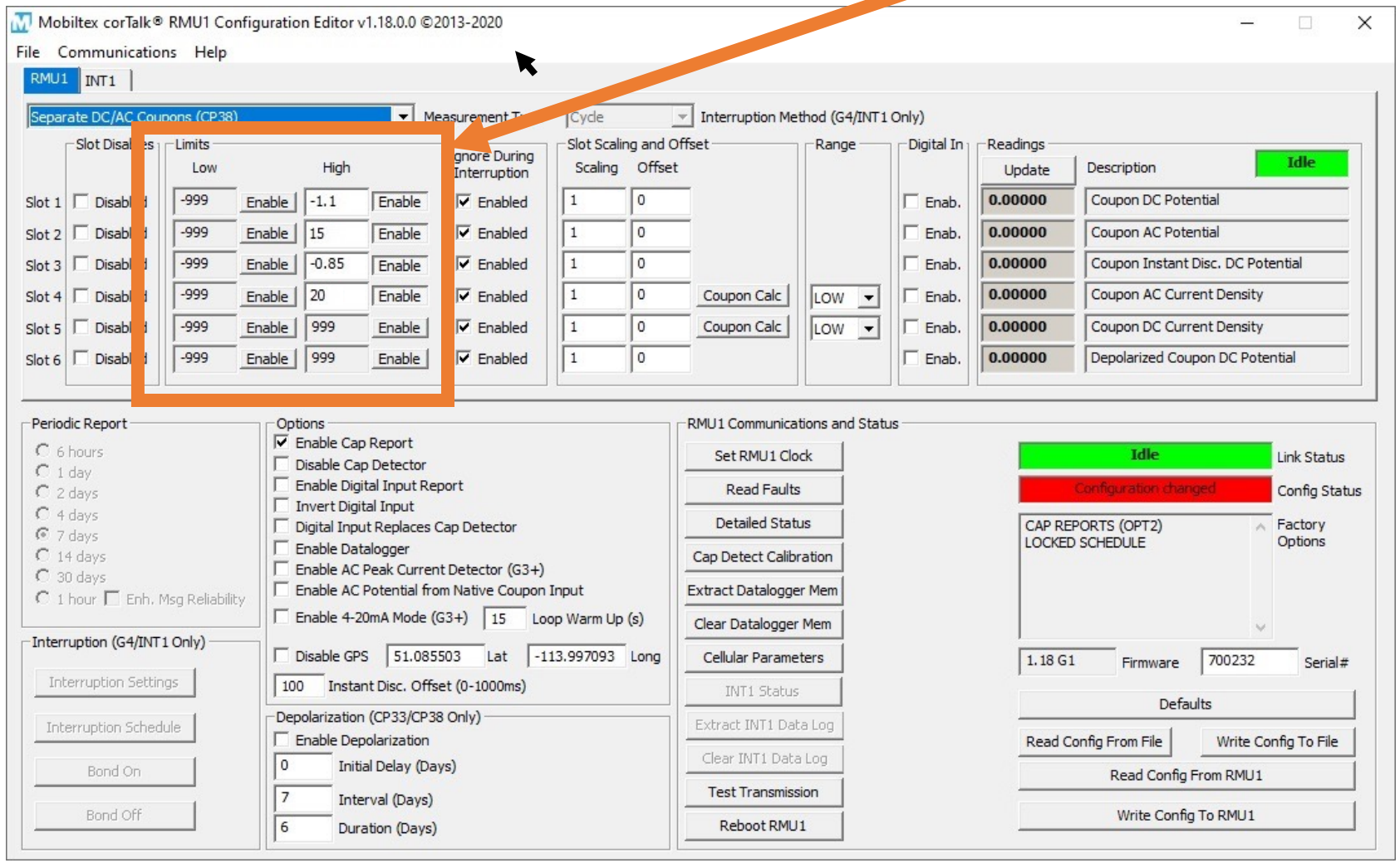
RMU1 Configuration

Click To Disable Any Unused Measurements



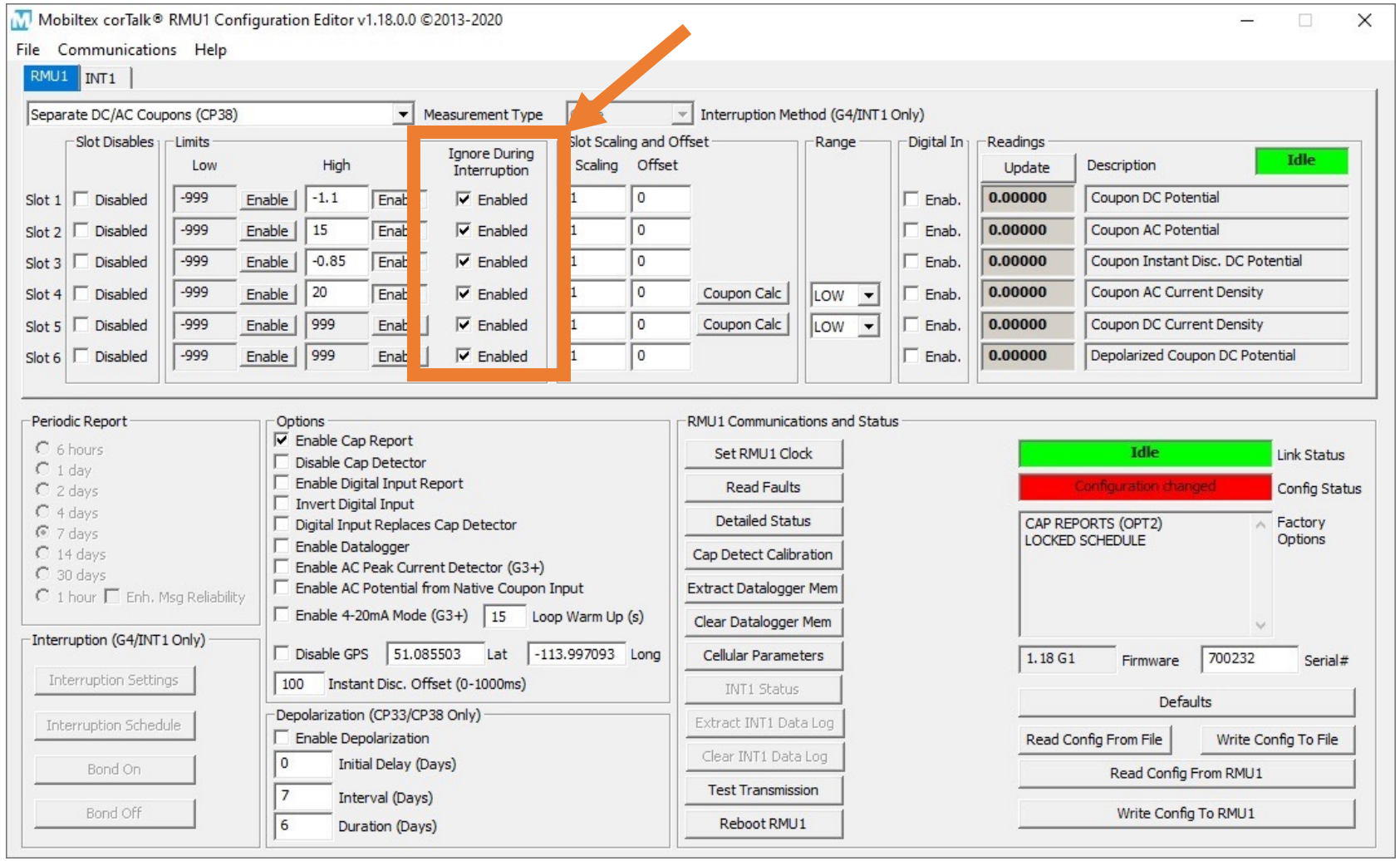
RMU1 Configuration

Set Up Alarm Limits

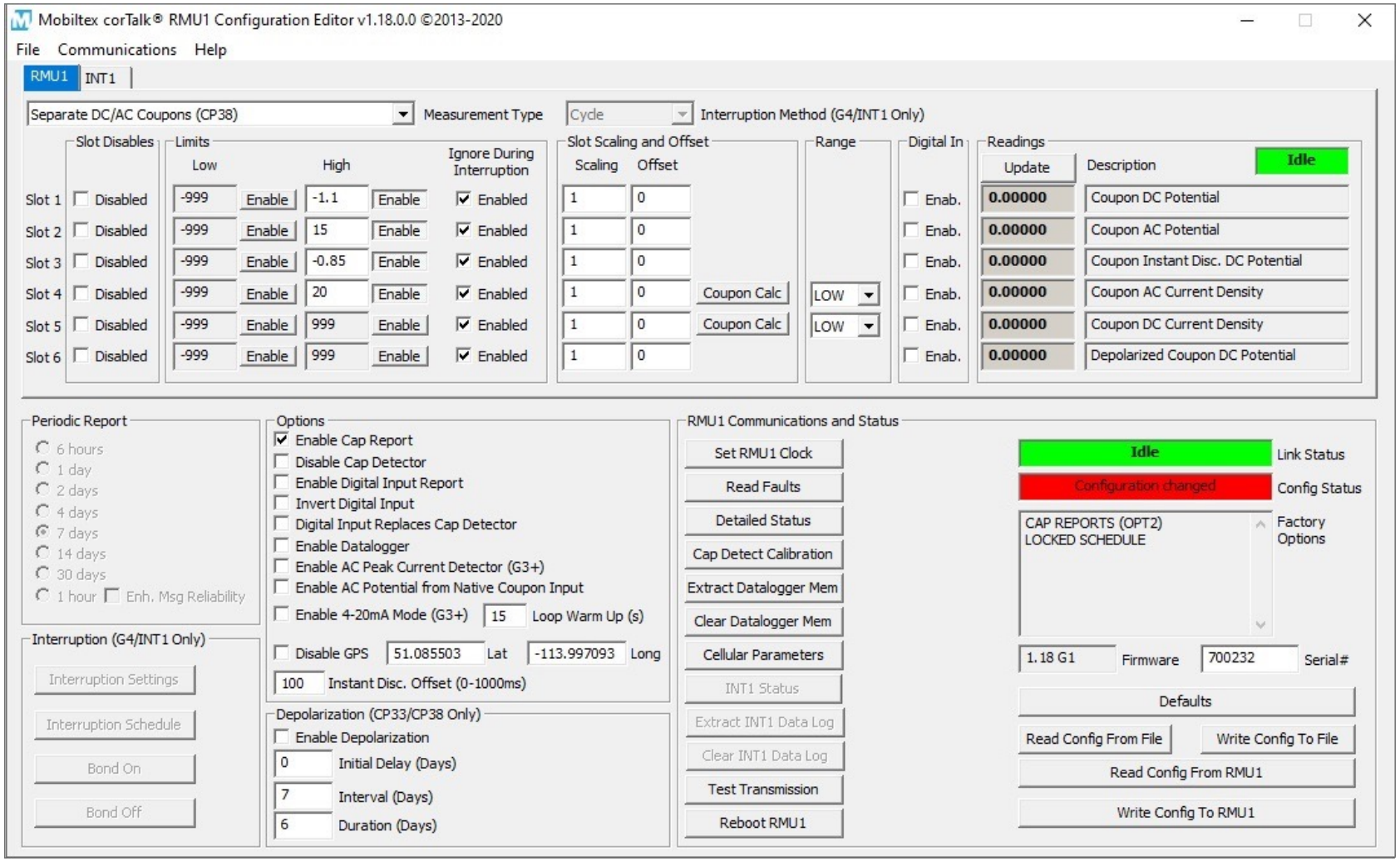


RMU1 Configuration

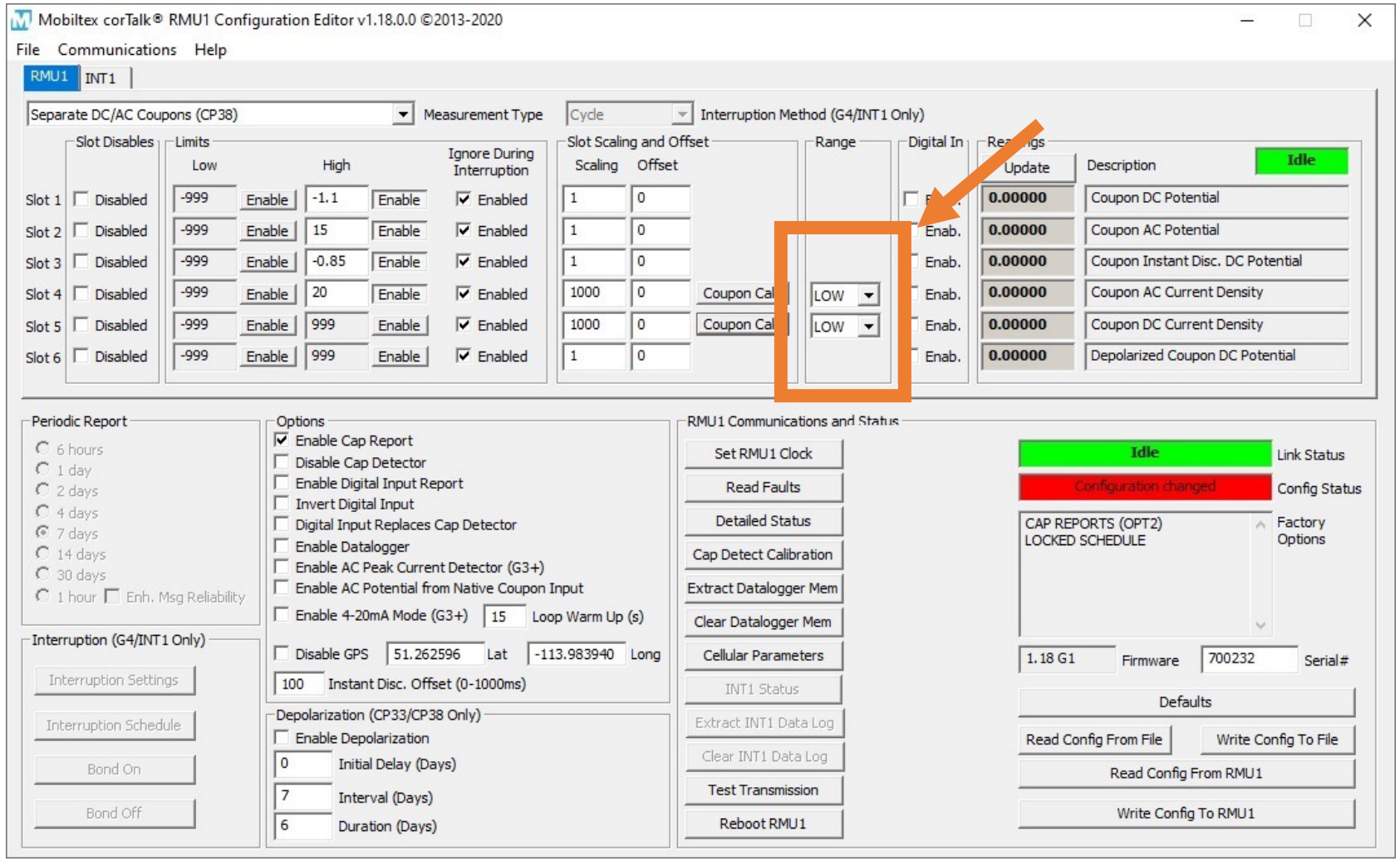
Ignore During Interruption Can Usually Be Left On



RMU1 Configuration



RMU1 Configuration



You can set the range for the current density readings.

AC Low 4.25mVac

AC Med 42.5mVac

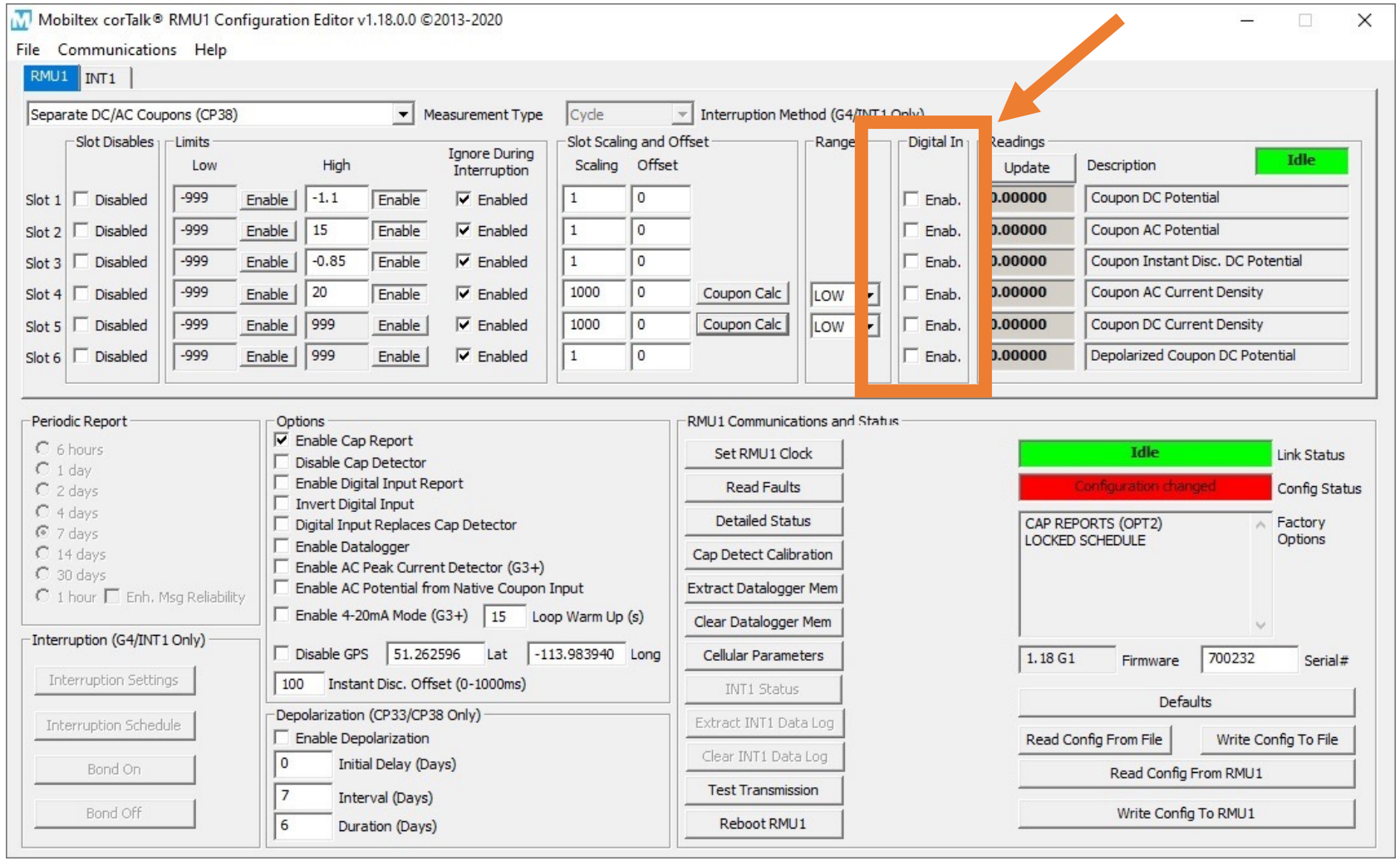
AC High 140mVac

DC Low 6mA DC

DC Med 60mA DC

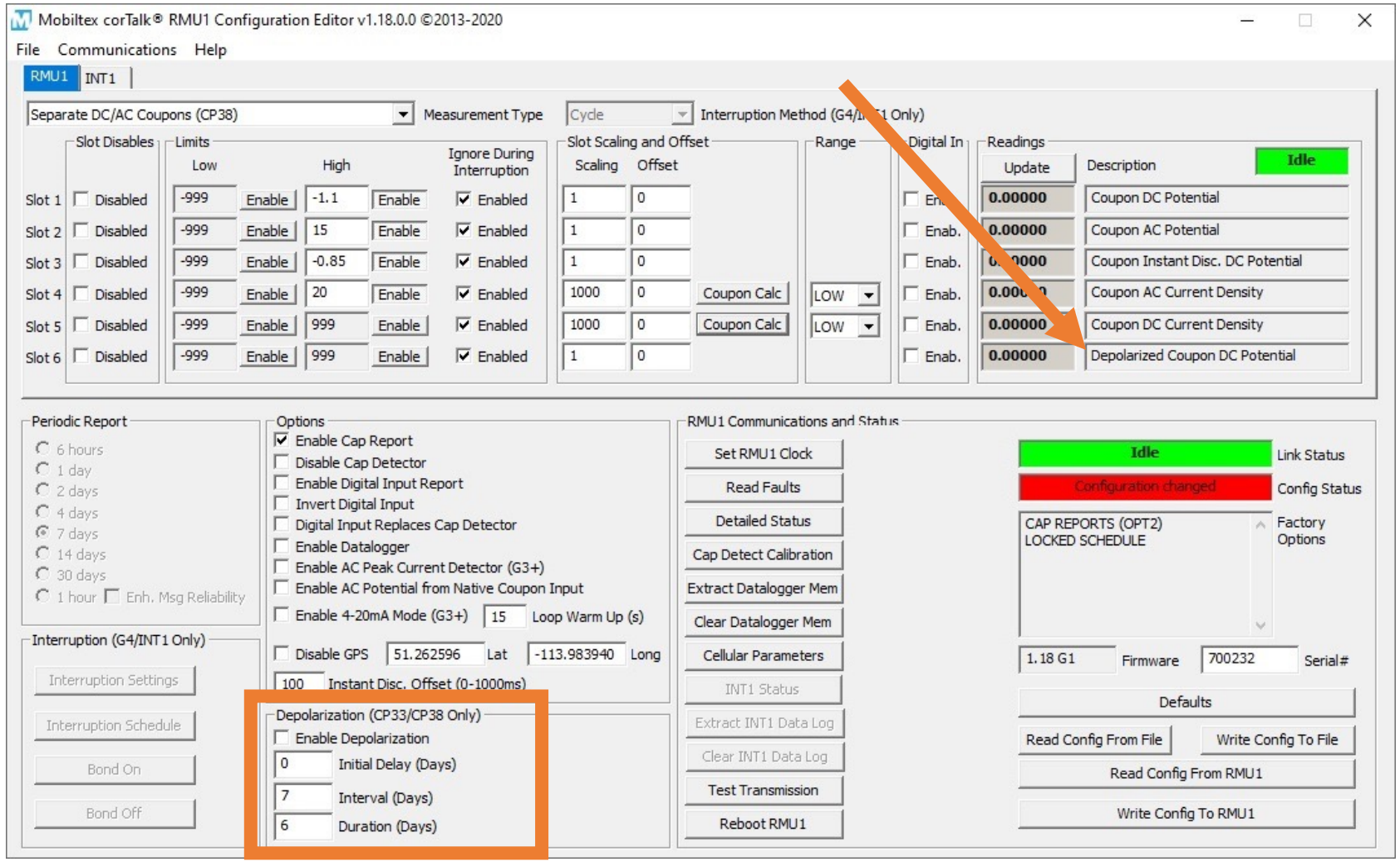
DC High 200mA DC

RMU1 Configuration



The Digital In checkbox changes the slot from an analog measurement to a on/off check. This should be left unchecked at most sites.

RMU1 Configuration



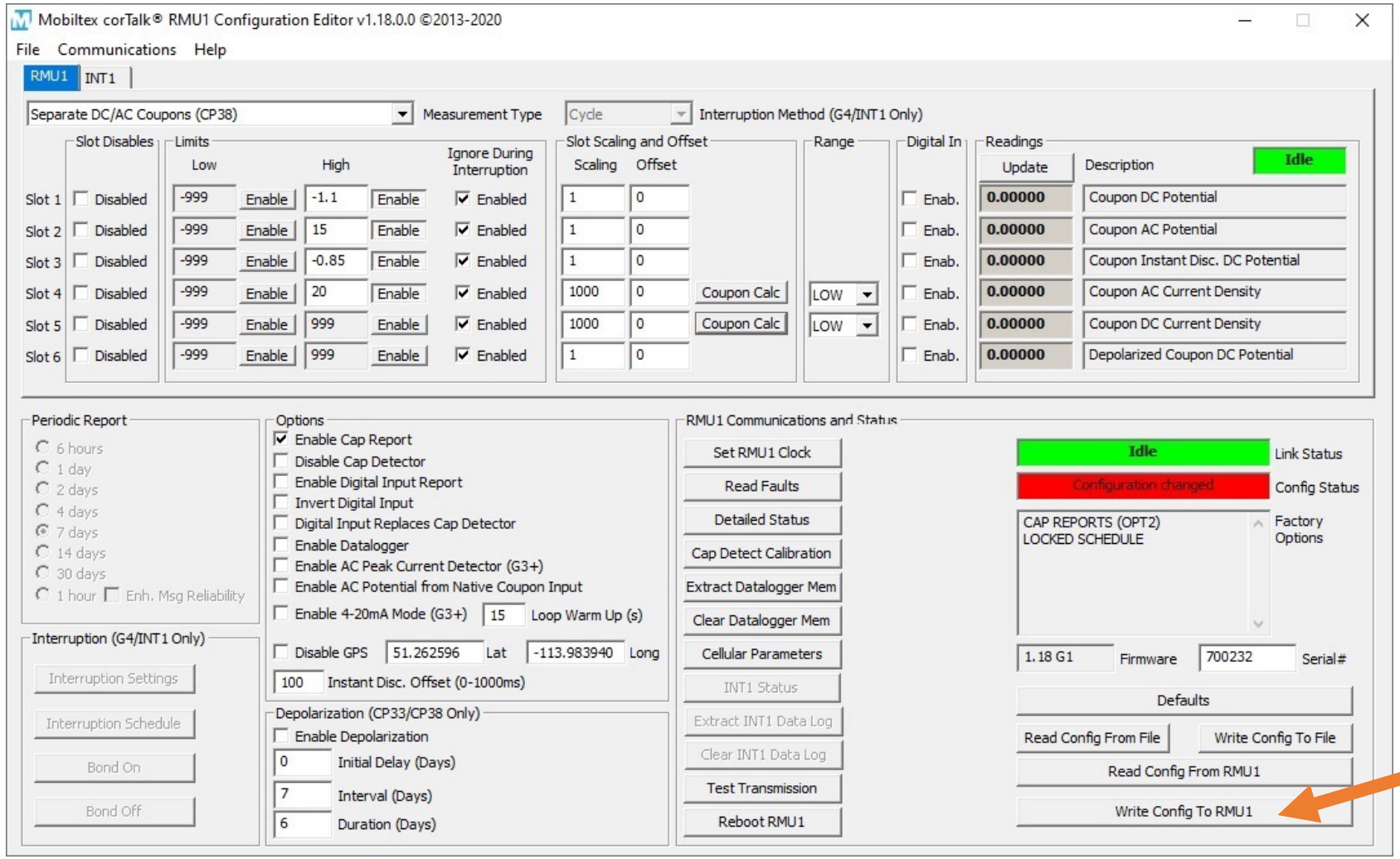
For sites that have depolarized coupon measurements, you can set it up and enable it at the bottom of the screen.

Initial Delay is the time until the first depolarization after the RMU1 powers up.

Interval is how often you want it to depolarize.

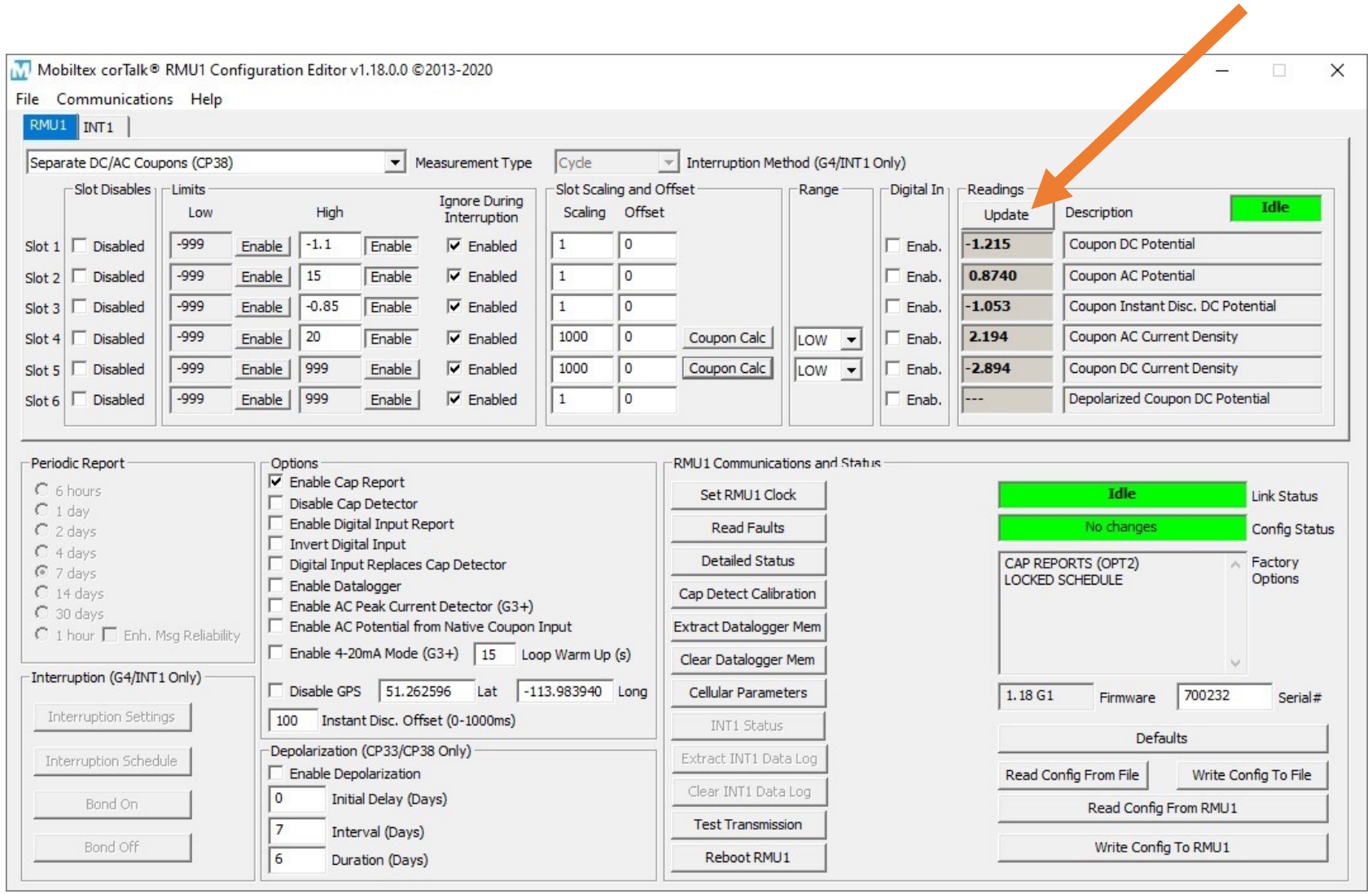
Duration is how long you want to have the coupon disconnected for.

RMU1 Configuration



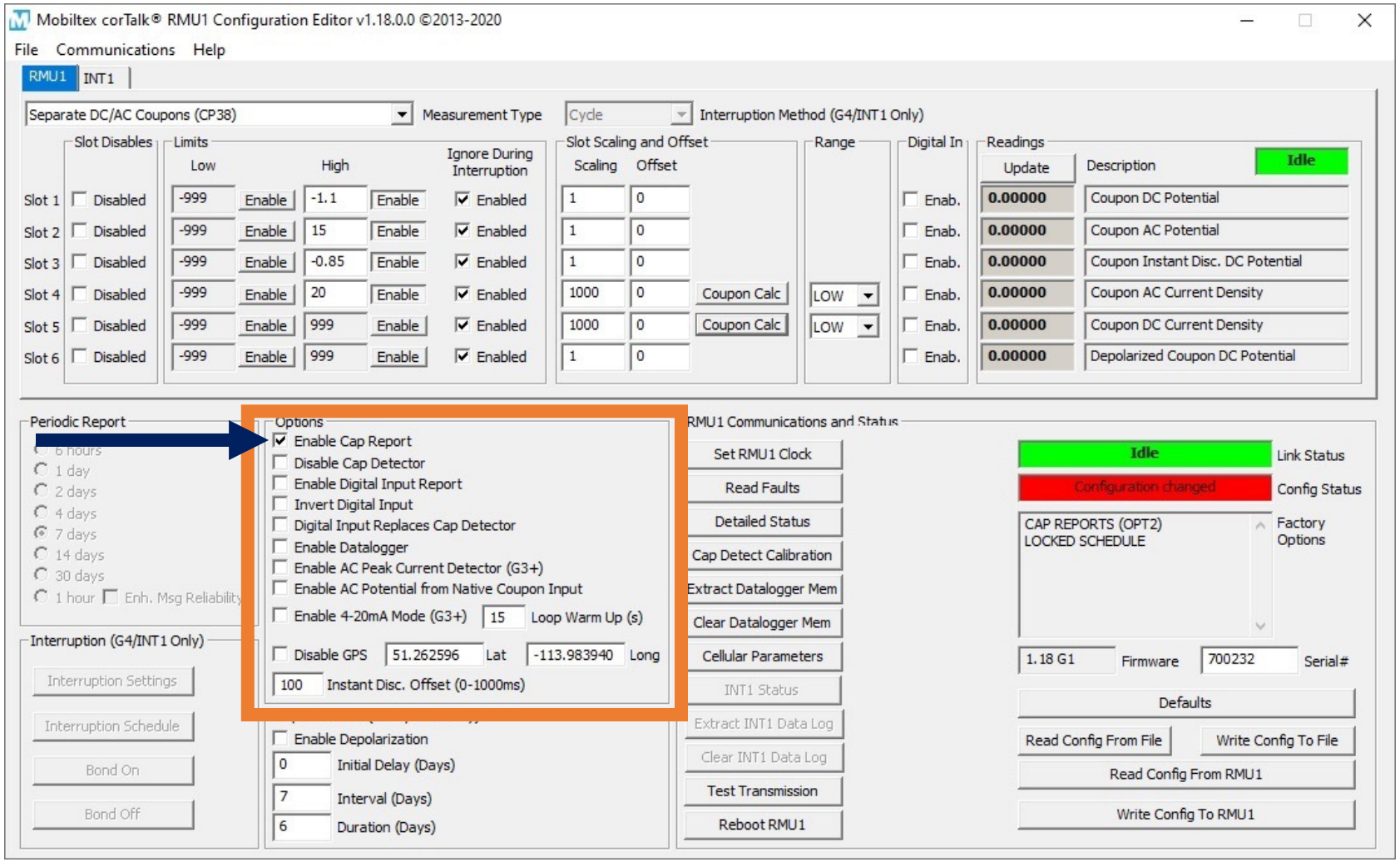
After You finish making changes you then need to write to the RMU to save the changes.

RMU1 Configuration



You can then test the RMU by clicking the [**Update**] button and verifying the readings.

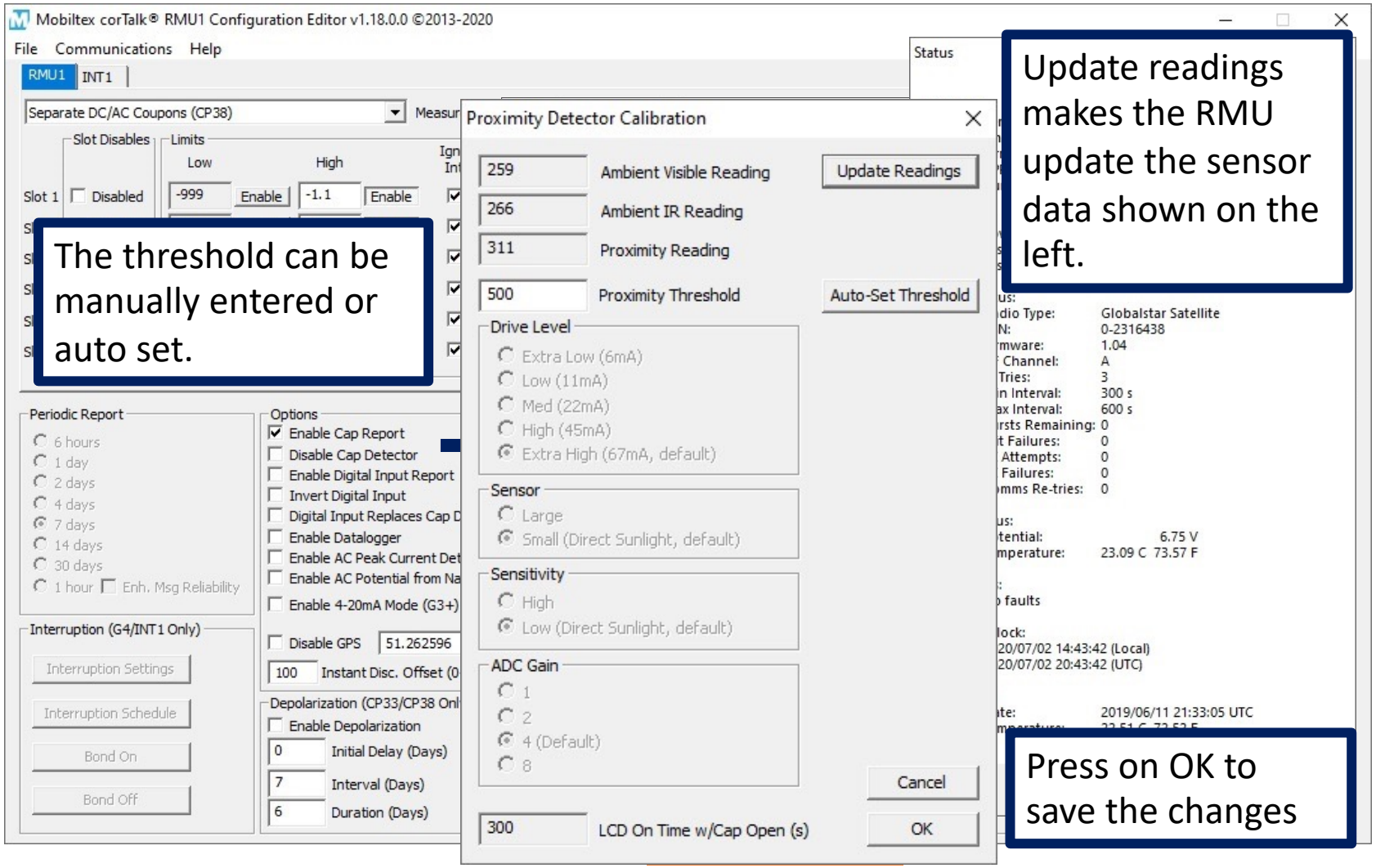
RMU1 Advanced Options



cover is removed. This is a paid option. Normal operation is to only update cap status on regular readings.

RMU1.

RMU1 Advanced Options



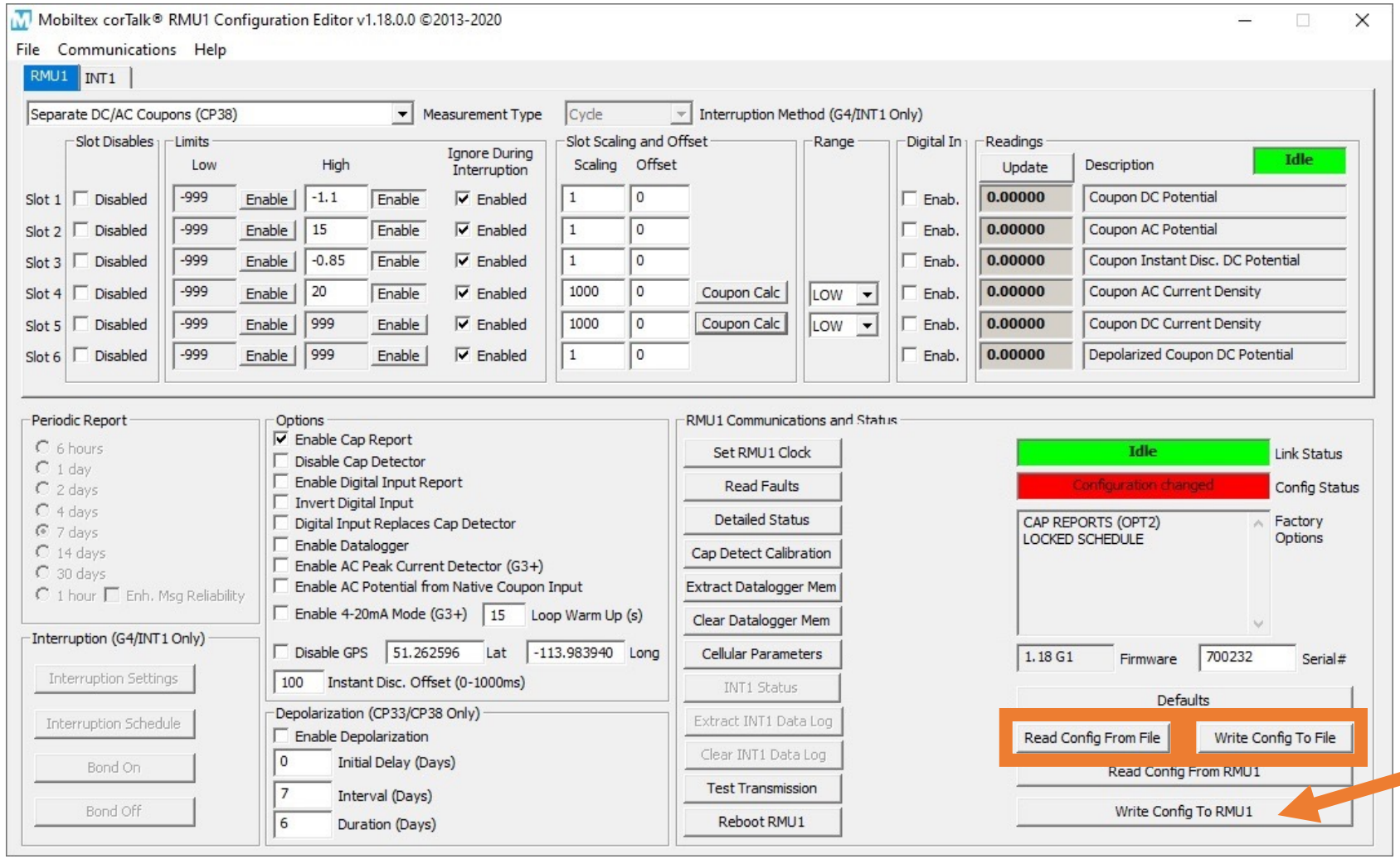
The threshold can be manually entered or auto set.

Update readings makes the RMU update the sensor data shown on the left.

Press on OK to save the changes

The [illegible] you may [illegible] pressing the button.

RMU1 Configuration



You can use the **Write Config To File** button to save a copy of the configuration to use at other similar sites.

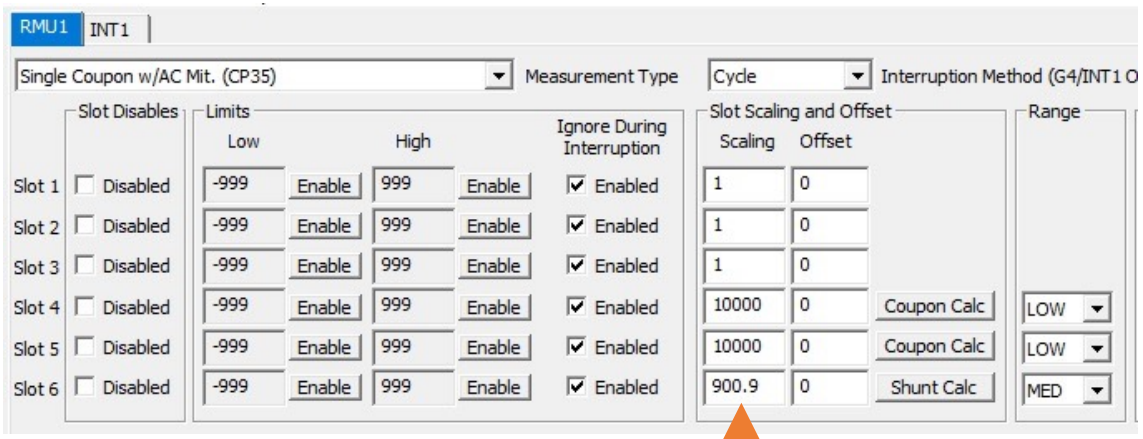
You can use the **Read Config From File** button to open a saved copy of the configuration.

After making configuration changes you then need to write to the RMU to save the changes.

RMU1 Configuration

AC Mitigation Transformers







When installing an AC mitigation transformer, type the scaling value printed on the transformer into the slot scaling box.

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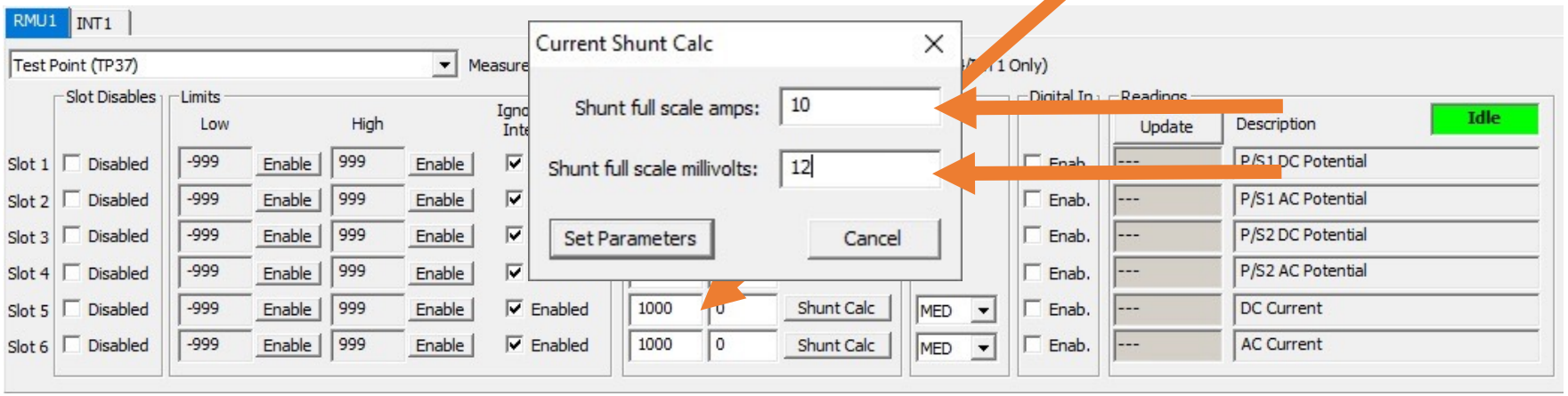
RMU1 Configuration

Cott Shunts



Red ... 0-10 ... Scaling 10

First, measure the voltage on the
will be a voltage drop across this
into the scaling box for both the AC
drop to determine the current.
This will give you a scaling of 833.33



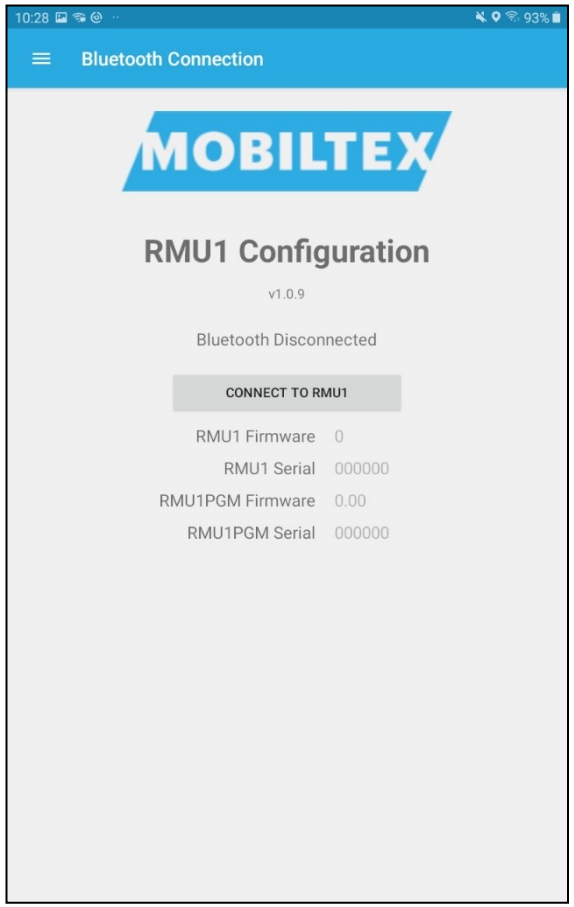
Configuring the RMU1 With a Mobile Device

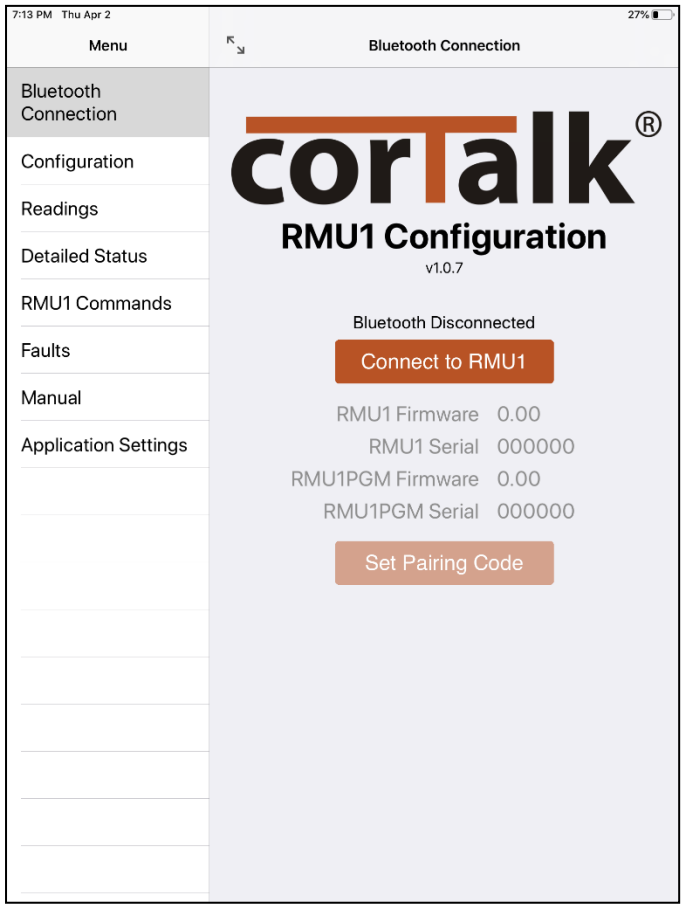
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RMU1 Configuration

Mobile Apps

Android

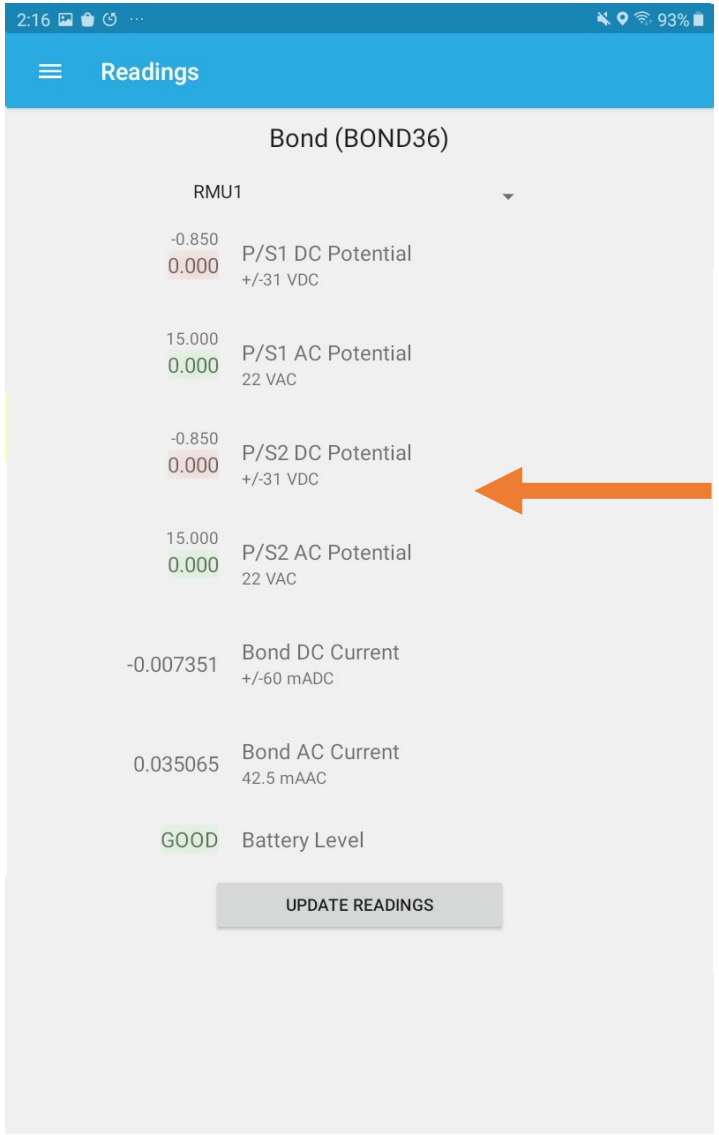




IOS

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RMU1 Configuration



Disable any measurements that you are not using.

Click on Write to RMU1 to save the changes.

It will highlight any areas where you have made changes.

Set limits for any measurements that you are not using.

You can go to **menu - Readings** and click on **Update Readings** to get the readings for RMU1 to take a reading to verify if the readings match your manual readings made with a meter.

Use the calculator to set the shunt size.

If this looks OK, programming is complete.

You may also need to adjust the measurement range.

You can view the wiring diagram for the selected measurement type.

RMU1 Troubleshooting

Call For Support



Service & Support

3640 26th St N.E.
Calgary AB
Canada T1Y 4T7

O: (403) 291 2770
Toll-Free: 1 844 689 3282
Skype: mobiltex.data
http://www.Mobiltex.com/service

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