

# CRLDS Refrigerant Sensor

## Configuring MultiFlex, iPro, and Site Supervisor Analog Inputs

### Technical Bulletin

#### MZLD Panels using CRLDS Sensors must use 4-20mA Signal

1-5VDC from the CRLDS AO is suitable for MultiFlex input boards, and must be changed to 4-20mA for iPro, Site Supervisor, IPX Modules.

When replacing the MRLDS-250 with the CRLDS for use with the MultiZone Leak Detection Panel, the CRLDS AO signal type must be set to 4-20mA.

This can be easily done via the Copeland CRLDS mobile app. Each MZLD zone using C series will also need to be switched to 4-20mA.

Wiring terminations from the CRLDS AO to the iPro MZLD panel terminal block is the same for 4-20mA signal; no change is needed.

Procedures to switch to 4-20mA below:

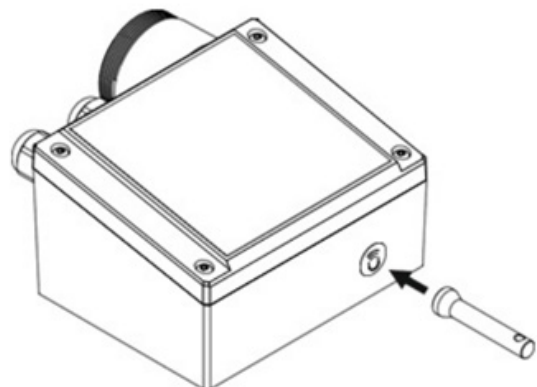


#### Use the CRLDS Mobile App for Android™ or iOS to Configure 4-20mA



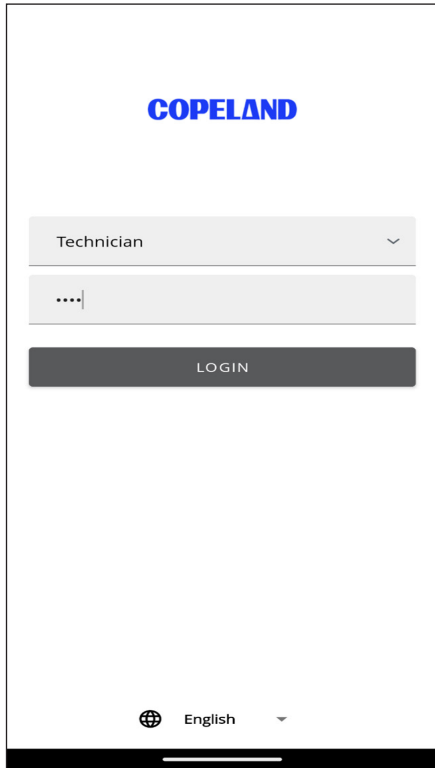
**Copeland CRLDS** (4+)  
Gas Detector  
Emerson Climate Technologies, Inc.  
Designed for iPad  
Free

1. Download and install Copeland CRLDS app from the App Store® or Google Play Store.
2. Activate Bluetooth® on the CRLDS sensor by touching the red magnetic wand to the magnetic switch on top of the enclosure for 5 seconds continuously.

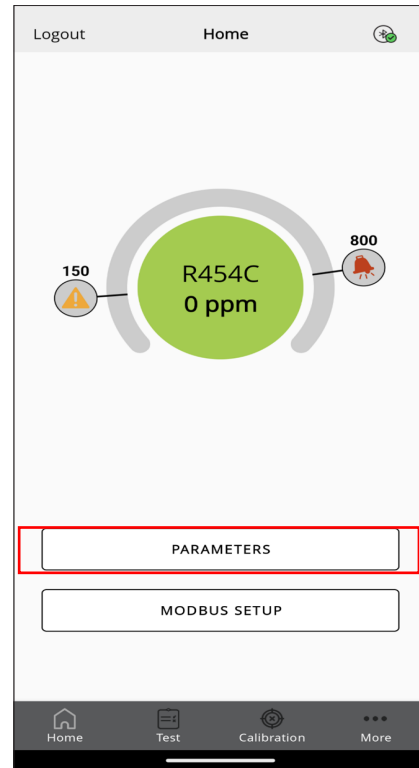


**COPELAND**

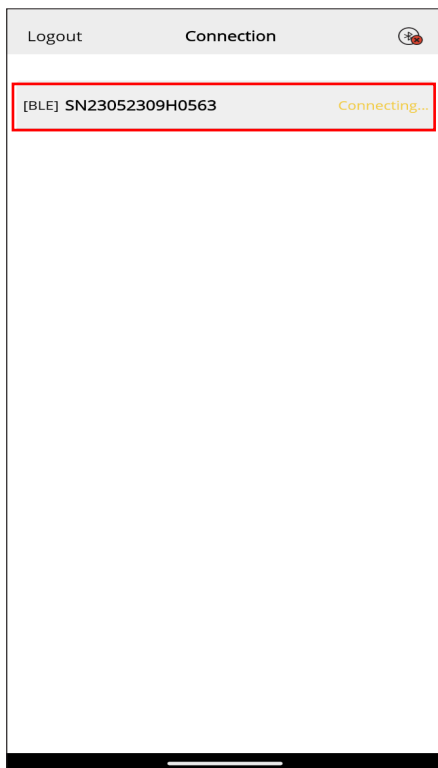
- Once Bluetooth® is activated, the green LED will change from solid green to blinking green.
- Open the CRLDS app, select **Technician** and log in with password **2222**.



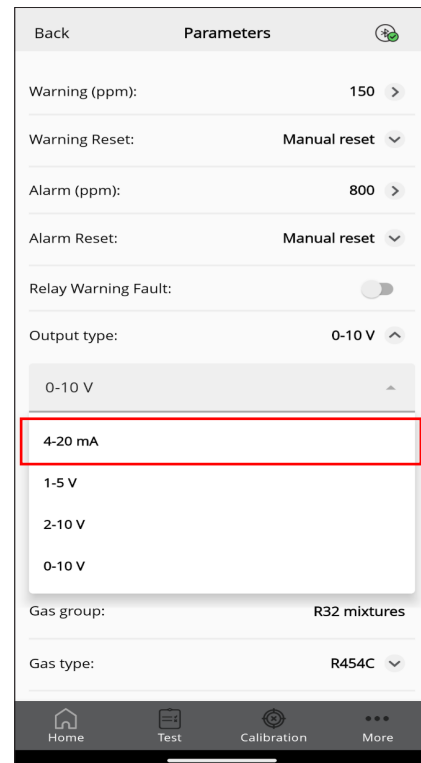
- From the Home tab, select the **Parameters** button.



- Select on the CRLDS serial number in the device list to connect.



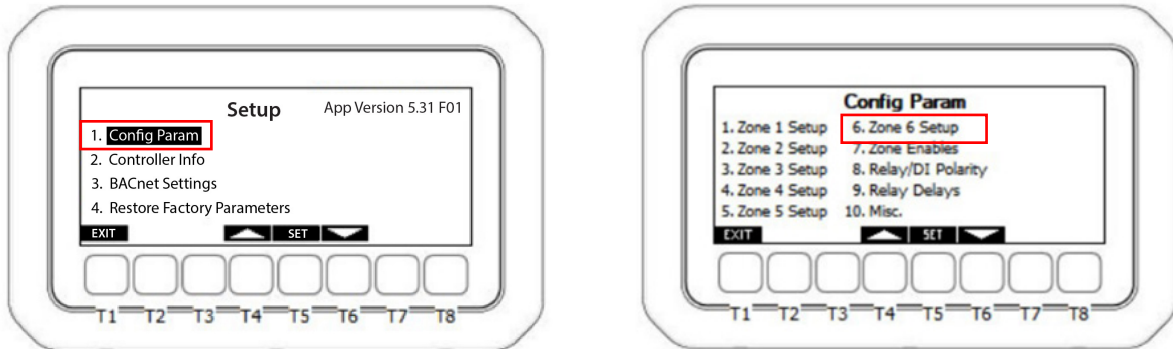
- Select the Output Type **4-20mA**, and press **Back** to save. Change the corresponding zone in the MZLD iPro to be 4-20mA for the analog input.



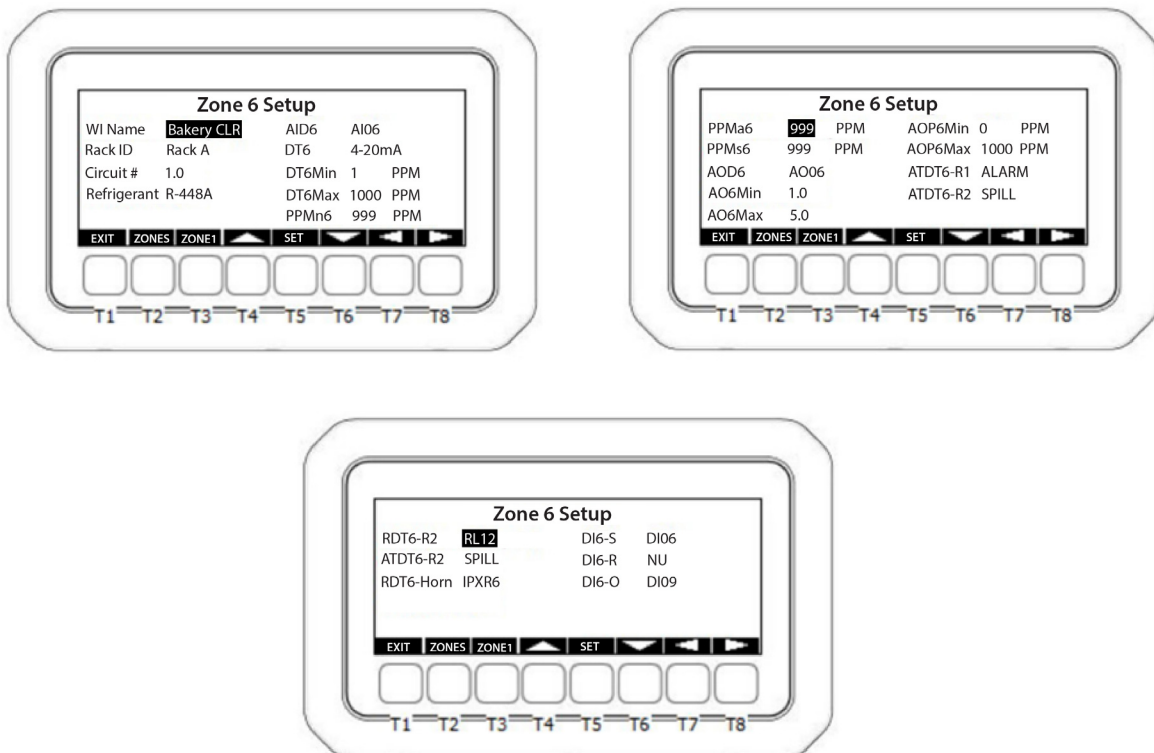
# Configure 4-20mA on the MZLD Panel iPro

Required iPro firmware version 5.35F01.

1. From the detector status screen, press and hold **T4** and **T5** for three (3) seconds.
2. The Setup screen will appear.
3. Select **1. Config Param.**



4. Use T4/T6 to arrow to the zone setup that has CRLDS connected and select it.
5. Within the zone setup screen, the DT1 parameter is the analog input signal type, change it to 4-20mA for all zones using CRLDS sensors.



## Configure 4-20mA on Site Supervisor Onboard Inputs

1. Configure the CRLDS analog output type to 4-20mA as shown earlier in this document.
2. Log into the Site Supervisor controller and go to **Onboard IO**.
3. Select the **Setup** tab of the Onboard IO.
4. Expand the **ConfProbe** menu for the input to be used by clicking the green arrow.

POINT NAME	TAG	VALUE	POINTERS
ConfProbe1		4-20mA	?
ConfProbe2		0-5V	?
ConfProbe2 Name		.OB.AI.01.02	?
ConfProbe2_EU		Temperature	?
Conf02_Offset		- NONE + Δ°F	?
Conf02 Linear		<input type="radio"/> ON <input checked="" type="radio"/> OFF	?
ConfProbe3		0-5V	?

5. Change **ConfProbe** to **4-20mA**, select **ON** for **Conf Linear** and change **Conf Linear EU** to **Concentration**. Expand **Conf Linear** and change **Conf LowEndEU** to **0**, change **Conf HighEndEU** to match the PPM range of the CRLDS 1000 for 1000ppm sensors for example.

POINT NAME	TAG	VALUE	POINTERS
ConfProbe2		4-20mA	?
ConfProbe2 Name		.OB.AI.01.02	?
Conf02 Linear EU		Concentration	?
Conf02_Offset		- 0.00 + ppm	?
Conf02 Linear		<input checked="" type="radio"/> ON <input type="radio"/> OFF	?
Conf02 LowEndPoint		- 4.00 +	?
Conf02 HighEndPoint		- 20.00 +	?
Conf02 LowEndLimit		- 3.60 +	?
Conf02 HighEndLimit		- 22.00 +	?
Conf02 LowEndEU		- 0.00 + ppm	?
Conf02 HighEndEU		- 1000.00 + ppm	?

6. Repeat this configuration for any Site Supervisor inputs that will use the CRLDS sensor.

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