4-20mA Input Calibration

Step 1:
Push the **SET UP RUN** button to get this screen. From here push **CALIBRATION** (Button 2) to go to the next screen.

```
          >HOME SETUP<

SETPOINTS                DATE/TIME
CALIBRATION              CONFIGURE
TIMERS                     HISTORY
CUSTOMIZE               TOTALIZERS
ALARMS                      RELAYS
```

Step 2:
Select the mA Inputs (Button 7) to go to mA Input calibration. Then select the mA input to calibrate.

```
    >CURRENT LOOP CALIBRATION<

INPUT 1
INPUT 2
INPUT 3
```

Step 3:
This will be the **mA INPUT CALIBRATION** screen. From here select **MAX** (Button 3) to set what the controller needs to display when it is receiving a 20mA signal. Use number keys to select and **ENTER** to set value.

```
     >mA INPUT 1 CALIBRATION<

20mA          14500
4mA            2900
MAX            200 PPM
MIN              0 PPM
OFFSET                   DISABLED
```

Step 4:
From the **mA INPUT CALIBRATION** screen select **MIN** (Button 4) to set what the controller needs to display when receiving a 4mA signal. Use number keys to select and **ENTER** to set value.

```
     >mA INPUT 1 CALIBRATION<

20mA          14500
4mA            2900
MAX            200 PPM
MIN              0 PPM
OFFSET                   DISABLED
```

WARNING:
The 20mA and 4mA calibration selections (Buttons 1 & 2) should only be selected if a 4-20mA signal generator is connected to the input.

```
     >mA INPUT 1 CALIBRATION<

20mA          14500
4mA            2900
MAX            200 PPM
MIN              0 PPM
OFFSET                   DISABLED
```

These selections are for calibrating the raw analog to digital (A/D) reading when a 4mA and/or 20mA signal is being sent into the input from an external device to match the controller's A/D reading to the signal value.

Units supplied with 4-20mA inputs from the factory come with the 4 and 20mA positions calibrated in the A/D with the A/D value seen at the time of the calibration displayed to the right of the position in the Input Calibration menu.

```
     >mA INPUT 1 CALIBRATION<

20mA          14500
4mA            2900
MAX            200 PPM
MIN              0 PPM
OFFSET                   DISABLED
```

These A/D values will be around 14500 on an SS and 3600 on an MG unit for the 20mA signal and 2900 on an SS and 800 on an MG unit for the 4mA signal. **If these are improperly set by entering an A/D value for the settings while the input is not seeing the correct signal a signal generator will be required to reset the calibration.**