

Bar & Line Plot Guide Graphic Display Unit

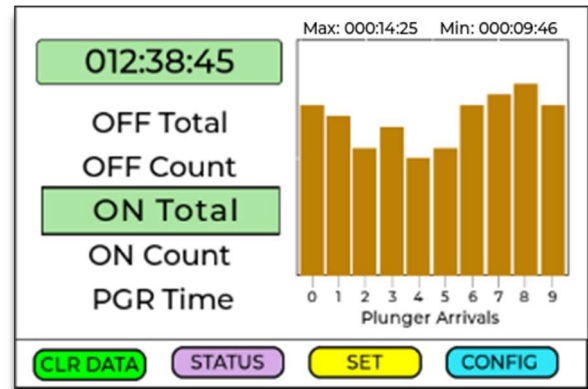


Intrinsically Safe for use in Class 1 Division 1
Group C and Group D Hazardous Locations

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Plunger Bar Chart

The Plunger Bar Chart (PBC) is located on the DATA screen and shows the chart of the last ten (10) plunger arrivals. The chart format provides a easy way to see relative plunger changes over time, such as decreasing and increasing plunger arrival trends.



The chart automatically updates upon new arrivals. When the number of arrivals reaches ten (10), the chart updates from left to right with the most recent arrival at the left (0).

Doc. No. 9401-4011095

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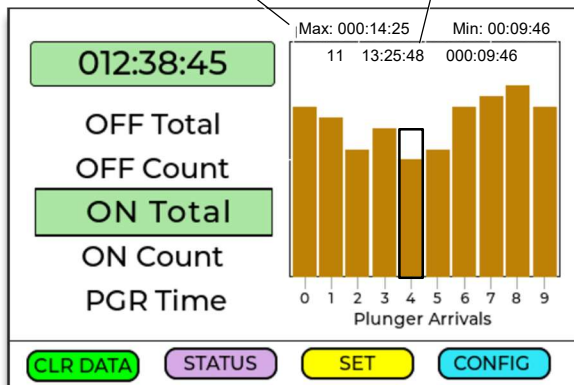
Plunger Bar Chart Detail

Above the PBC is the "Maximum" and "Minimum" arrival times for all the displayed arrivals. A "Missed Plunger" will show as a zero (000:00:00) arrival time and is not included in the Max/Min display times.

To see individual arrival times, touch the bar of interest for Day-of-Month, Time-of-Day and Arrival Time for that bar.

Max & Min arrival times
for all Plungers displayed

Data for "touched" bar
DOM, TOD, Arrival Time



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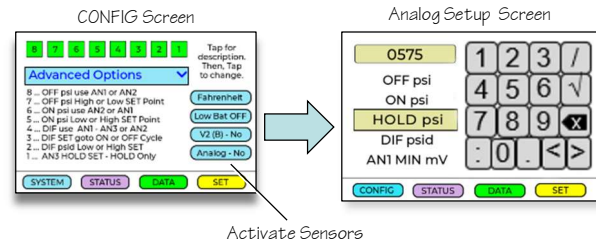
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Access Analog Sensor Plotting

The Analog Line Chart (ALC) is activated in the CONFIG screen. To activate Analog Sensor data acquisition, Touch the "Analog - No" button, which will take you to the Analog Sensor Setup screen.

Aside from other sensor setup options, the 1st rolodex item will be the desired number of hours for the Analog Line plot. The default is one (1) hour, but any number of hours can be entered.



It is recommended users start out with 1 hour to get used to how the line plots are generated and updated. Then go back to the CONFIG screen, touch the "Analog - Yes" button twice to get to the Analog Setup screen again to change the plot hours.

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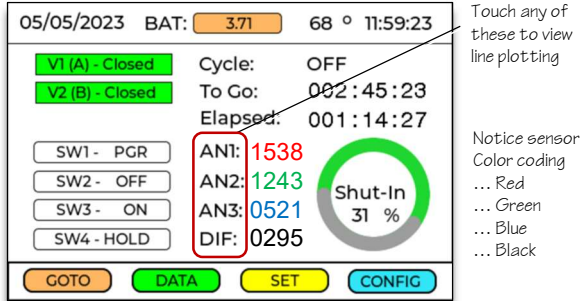
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Accessing the Analog Sensor Plots

Once the Analog Sensors have been activated and setup, go back to the STATUS screen to see the Analog Sensor readings.

To see the Analog Sensor line plots, touch any of the sensor labels to the left of the color coded sensor readings. This action will immediately show the LINE PLOT screen.

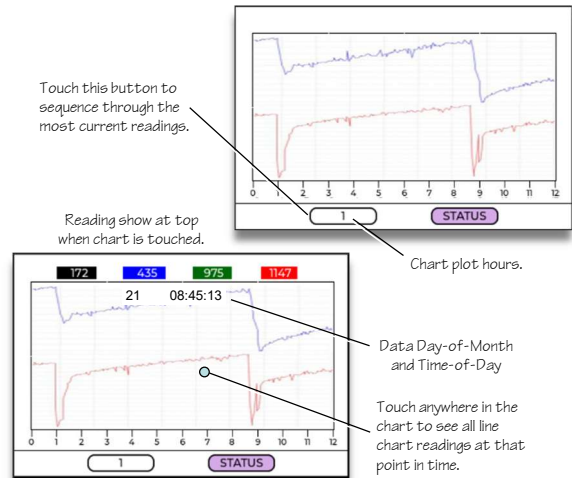


The Analog Sensor readings are color coded the same as their associated line plots. After viewing and interacting with the line plots, touch the STATUS button to return to the above STATUS screen.

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Analog Sensor Line Plot

The Line Plot can show up to four (4) analog sensors. The chart will fill in line plots from left to right. When the chart gets full, new readings enter the chart at the right side. Total plot time is always divided into twelve (12) tic marks.



Line chart data shown is for illustration only.

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Line Plot Timing

The total plot time is always divided into twelve (12) tic marks. For example, 1 hour plot has 12 5 minute tics, 2 hour plot has 12 10 minute tics and 24 hour plot has 12 2 hour tics and so on. See table below for reference ...

Plot Time	X-Axis Tics
1 hour	5 minutes
4 hours	20 minutes
6 hours	30 minutes
8 hours	40 minutes
12 hours (1 day)	1 hour
24 hours (2 days)	2 hours
48 hours (3 days)	4 hours
72 hours (4 days)	6 hours
84 hours (5 days)	8 hours
96 hours (6 days)	10 hours
120 hours (7 days)	12 hours

There are 720 x-axis data points per line plot.

Updates are in multiples of 5 second increments.

6 hrs updates every 6x5 = 30 seconds.

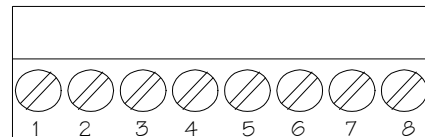
24 hrs updates every 24x5 = 120 seconds.

120 hrs updates every 120x5 = 600 seconds.

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Analog Sensor Hook-Up

J6 8-Position screw terminal block.



+Vs (1) – Gnd Switched Sensor +10 Vdc Power.
+Vs connects to sensor PWR or V+.

AN1 (2) – Gnd AN1 (normally Casing) psi sensor.
AN1 connects to sensor Out.

AN2(4) – Gnd AN2 (normally Tubing) psi sensor.
AN2 connects to sensor Out.

AN3 (6) – Gnd AN3 (normally Sales Line) psi sensor.
AN3 connects to sensor Out.

+Vs (8) – Gnd Switched Sensor +10 Vdc Power.
+Vs connects to sensor PWR or V+.

Analog sensor inputs are 0 – 5 Vdc. Units are scaled in psi, psid, InW, feet (meters) or other units as required.

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