

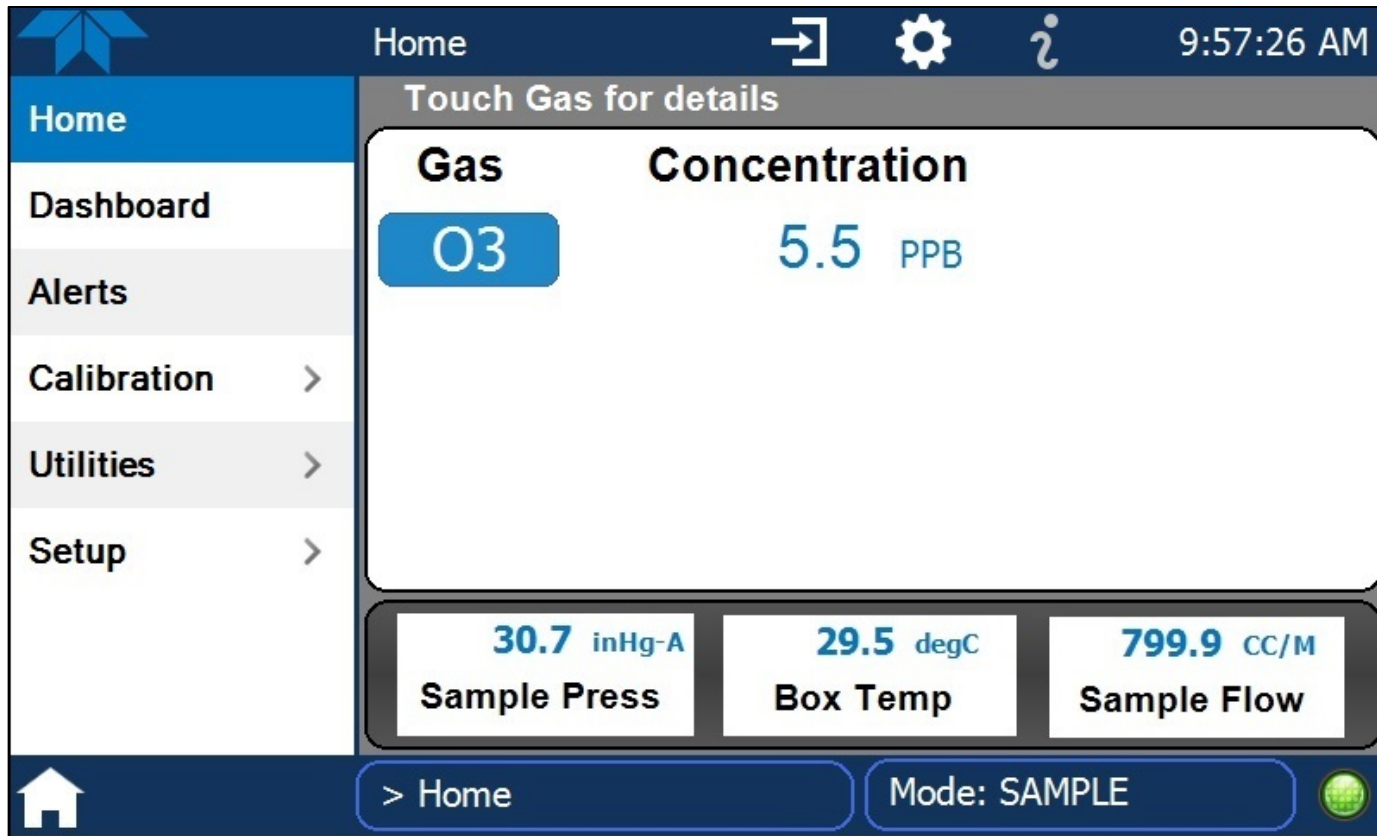


NumaView™ software

Teledyne Advanced Pollution Instrumentation

Introduction

Graphical User Interface for the T Series with a fresh, new look!



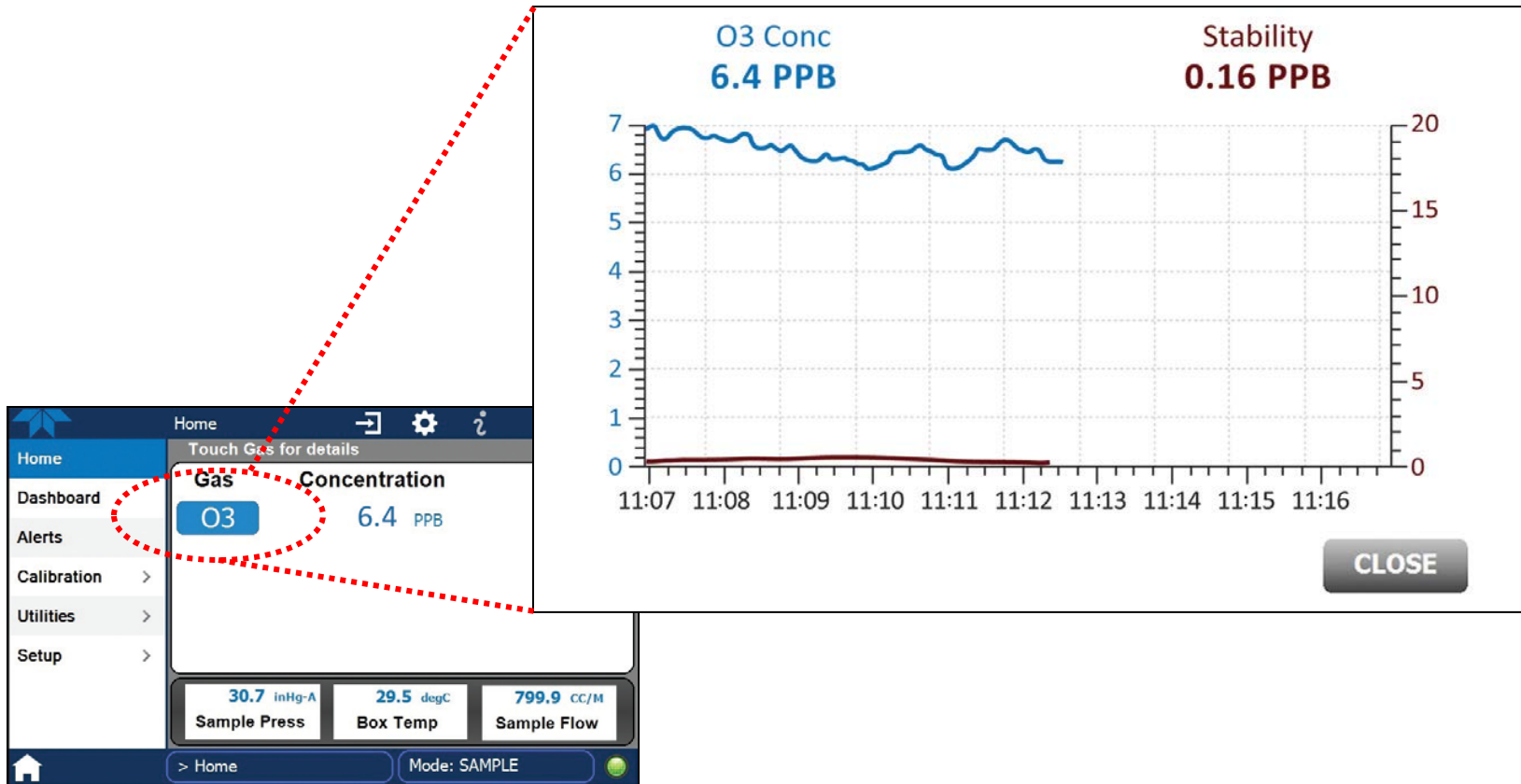
Easy User Interaction

Touch screen with scrolling capability



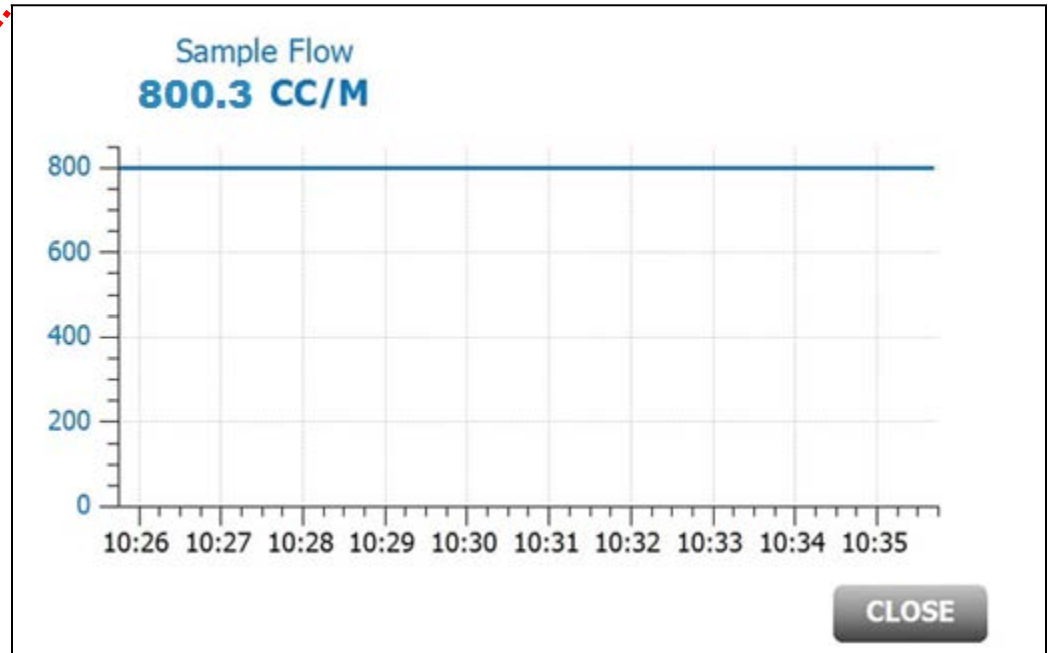
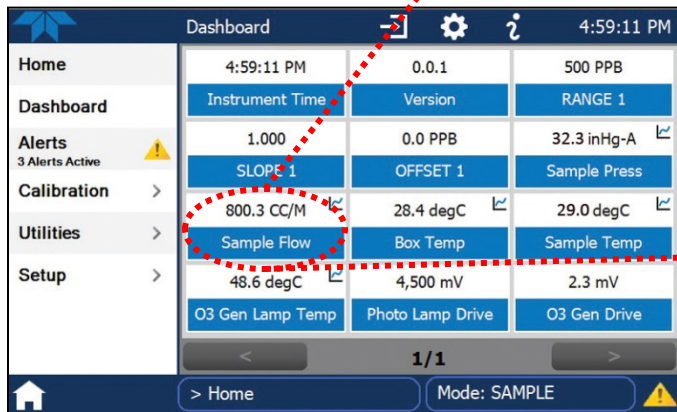
Enhanced User Interface

Real-time graphical representation of concentration and stability



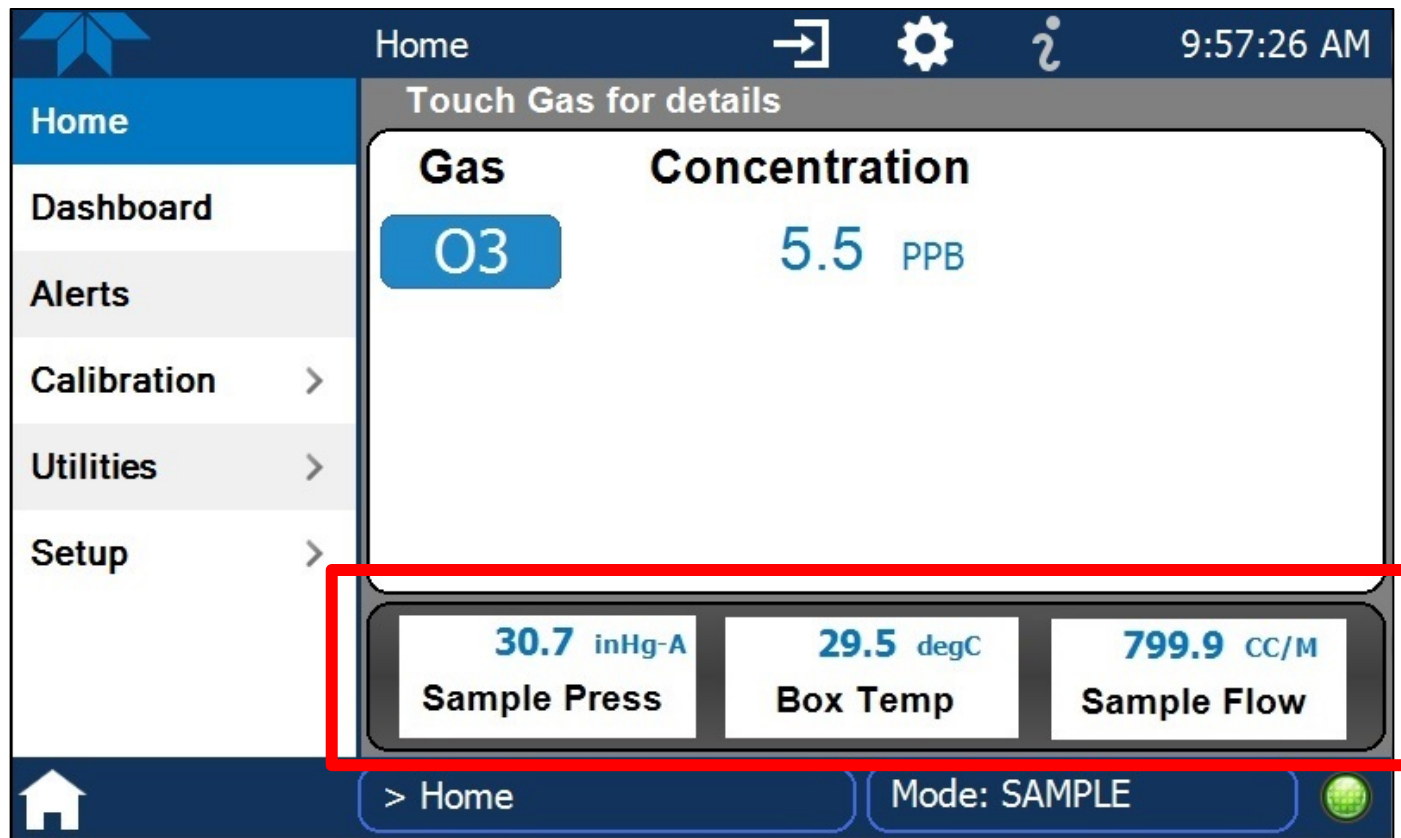
Enhanced User Interface

Real-time graphical representation of test functions



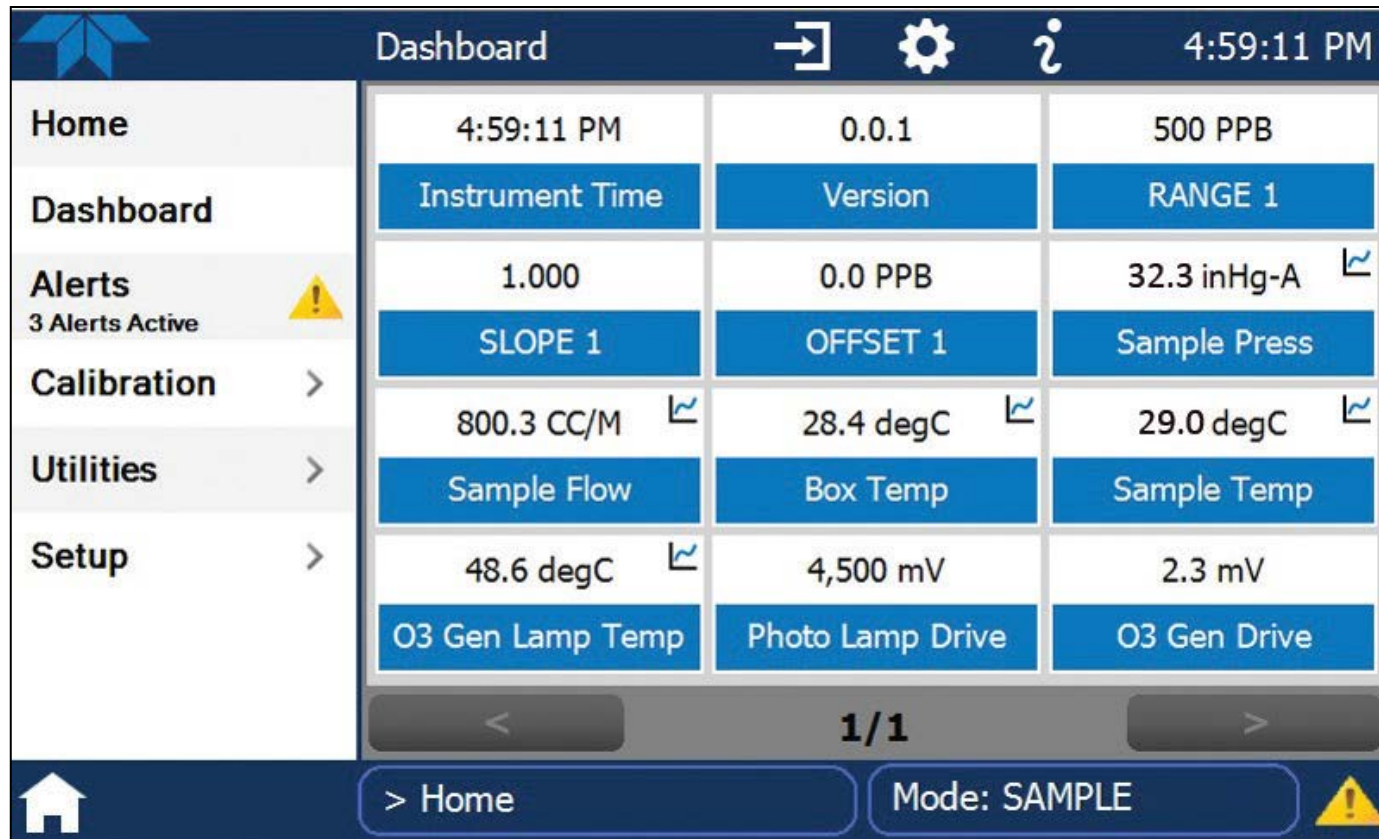
Enhanced User Interface

Ability to see multiple data points



Enhanced User Interface

Configurable dashboard



Enhanced User Interface

Simultaneous display of alerts with time stamp and cause

3 Alerts Active

☒

5/8/2015 - 3:31 PM SYSTEM RESET
Warning raised when the the system is reset

☒

5/8/2015 - 3:31 PM SAMPLE PRESS WARN
Trigger: Sample Press value outside specified range [27-30]

☒

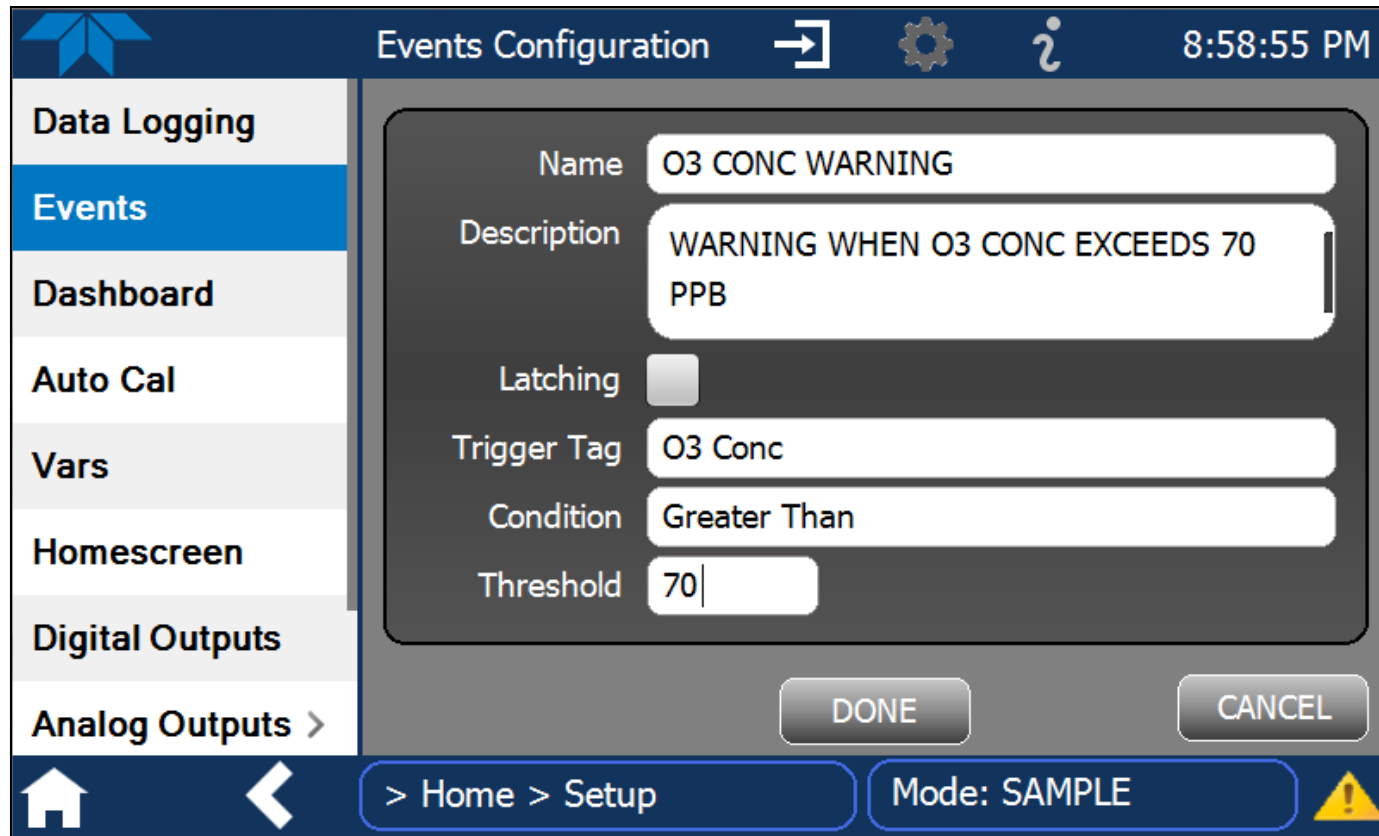
5/8/2015 - 3:32 PM O3 ALARM 1 WARN
Trigger: O3 Conc > 40

☒ **Select All**

Clear Selected

Enhanced User Interface

Custom events and warnings



The screenshot displays the 'Events Configuration' screen in the NumaView interface. The left sidebar contains navigation options: Data Logging, Events (selected), Dashboard, Auto Cal, Vars, Homescreen, Digital Outputs, and Analog Outputs. The main area is titled 'Events Configuration' and shows the following fields:

- Name:** O3 CONC WARNING
- Description:** WARNING WHEN O3 CONC EXCEEDS 70 PPB
- Latching:** ☐
- Trigger Tag:** O3 Conc
- Condition:** Greater Than
- Threshold:** 70

At the bottom right of the configuration area are 'DONE' and 'CANCEL' buttons. The bottom status bar shows a home icon, a back arrow, the breadcrumb '> Home > Setup', the mode 'Mode: SAMPLE', and a warning icon.

Enhanced User Interface

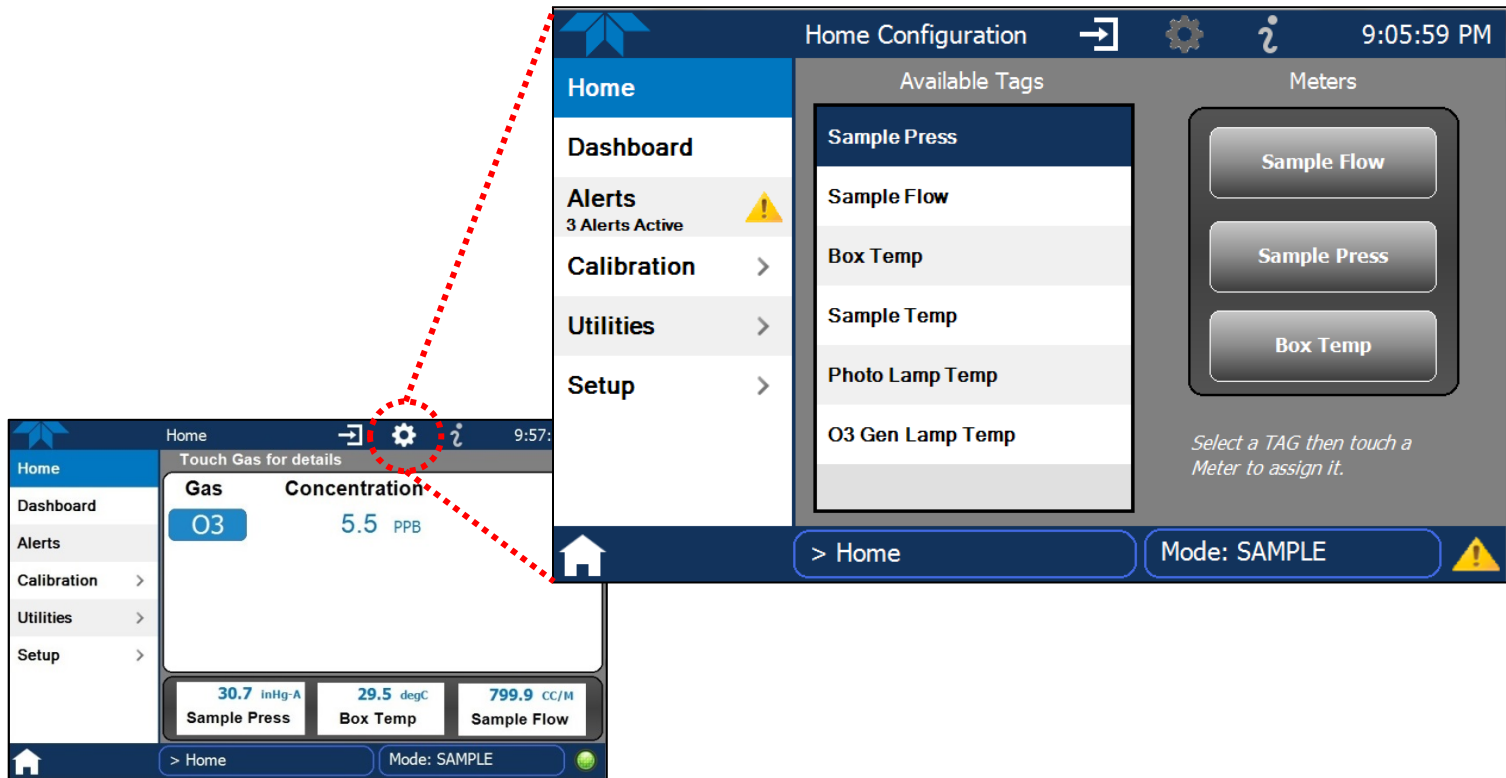
Intuitive icons

The screenshot displays the NumaView user interface. The top navigation bar includes a logo, the title 'Dashboard', a set of three icons (a square with an arrow, a gear, and an information symbol) highlighted by a red box, and the time '4:59:11 PM'. The left sidebar contains menu items: 'Home', 'Dashboard', 'Alerts' (with '3 Alerts Active' and a yellow warning triangle icon highlighted by a red box), 'Calibration', 'Utilities', and 'Setup'. The main content area is a grid of 12 data points arranged in 4 rows and 3 columns. Each data point consists of a numerical value and a label in a blue button. The data points are: Row 1: 4:59:11 PM (Instrument Time), 0.0.1 (Version), 500 PPB (RANGE 1); Row 2: 1.000 (SLOPE 1), 0.0 PPB (OFFSET 1), 32.3 inHg-A (Sample Press); Row 3: 800.3 CC/M (Sample Flow), 28.4 degC (Box Temp), 29.0 degC (Sample Temp); Row 4: 48.6 degC (O3 Gen Lamp Temp), 4,500 mV (Photo Lamp Drive), 2.3 mV (O3 Gen Drive). At the bottom, there is a navigation bar with a home icon highlighted by a red box, a '> Home' button, a 'Mode: SAMPLE' button, and another yellow warning triangle icon highlighted by a red box. The page number '1/1' is centered above the navigation bar.

Menu Item	Value	Label
Home	4:59:11 PM	Instrument Time
Dashboard	0.0.1	Version
Alerts (3 Alerts Active)	500 PPB	RANGE 1
Calibration	1.000	SLOPE 1
Utilities	0.0 PPB	OFFSET 1
Setup	32.3 inHg-A	Sample Press
	800.3 CC/M	Sample Flow
	28.4 degC	Box Temp
	29.0 degC	Sample Temp
	48.6 degC	O3 Gen Lamp Temp
	4,500 mV	Photo Lamp Drive
	2.3 mV	O3 Gen Drive

Enhanced User Interface

Simplified menus and efficient navigation



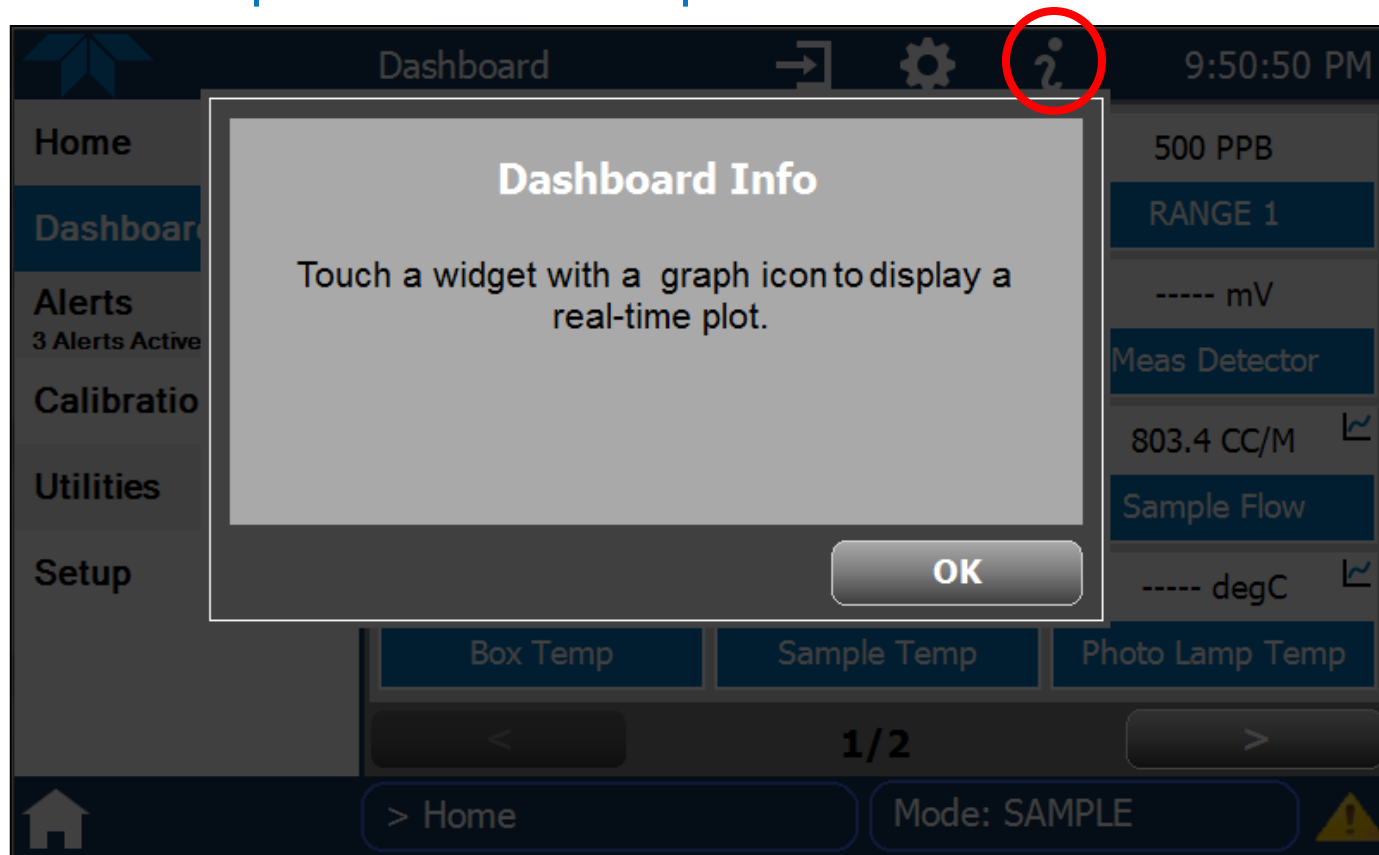
Enhanced User Interface

Quick-view graphs in sample mode and calibration mode



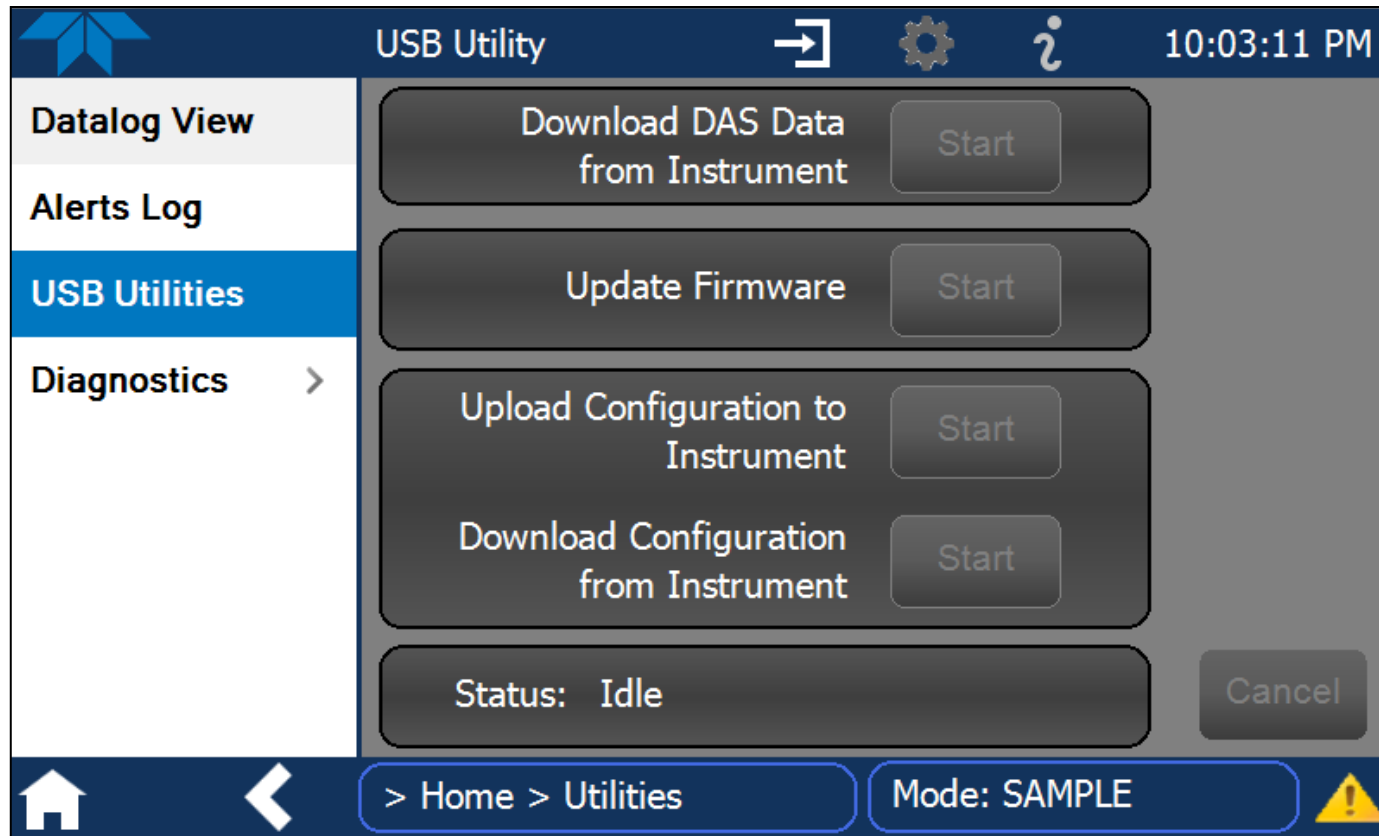
Enhanced User Interface

Help notes for descriptions and instructions



Improved Data Acquisition and Logging

USB data download



Improved Data Acquisition and Logging

Triggers for data logging, including periodic and conditional

Datalog Configuration 1:06:37 PM

Data Logging

Events

Dashboard

Auto Cal

Vars

Homescreen

Digital Outputs

Analog Outputs >

Name: DL Periodic (every minute)

Description: Datalog tag to read data every minute

Log Tags: O3 Conc, O3 Stability, Photo Lamp Temp

Trigger Type: Periodic Trigger

Interval: 60 Seconds

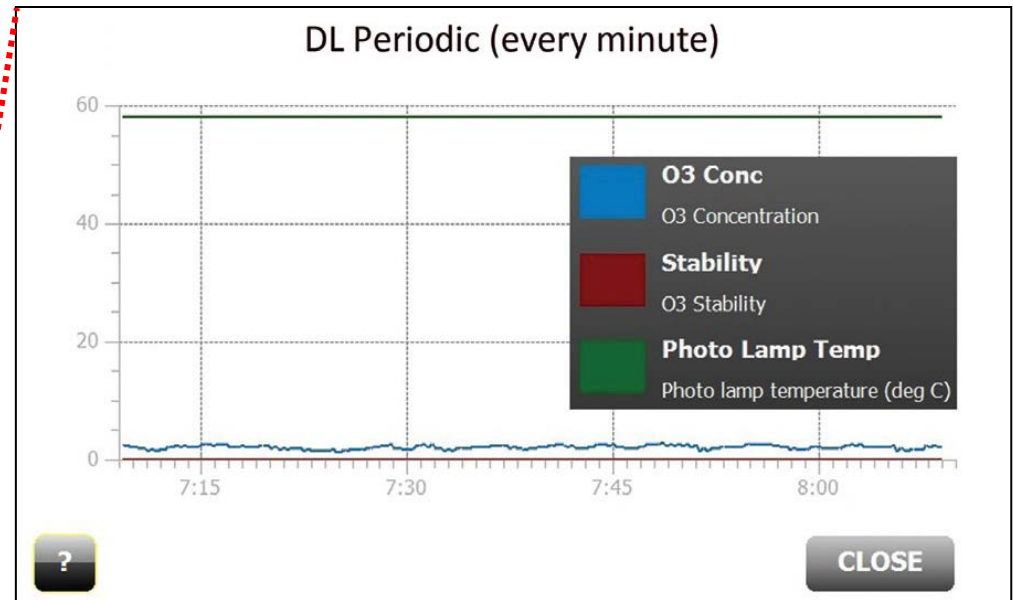
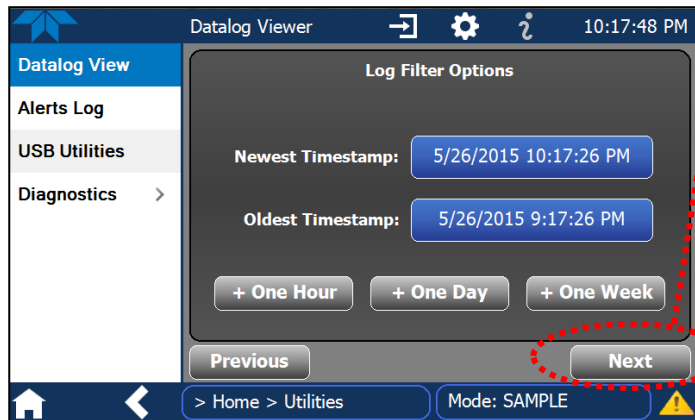
Start Time: 5/27/2015 7:03:45 AM

DONE CANCEL

> Home > Setup Mode: SAMPLE

Improved Data Acquisition and Logging

Customizable datasets that can be viewed on the GUI



Digital Outputs

Quickly map Boolean tags to any physical output

Digital Outputs

10:29:12 PM

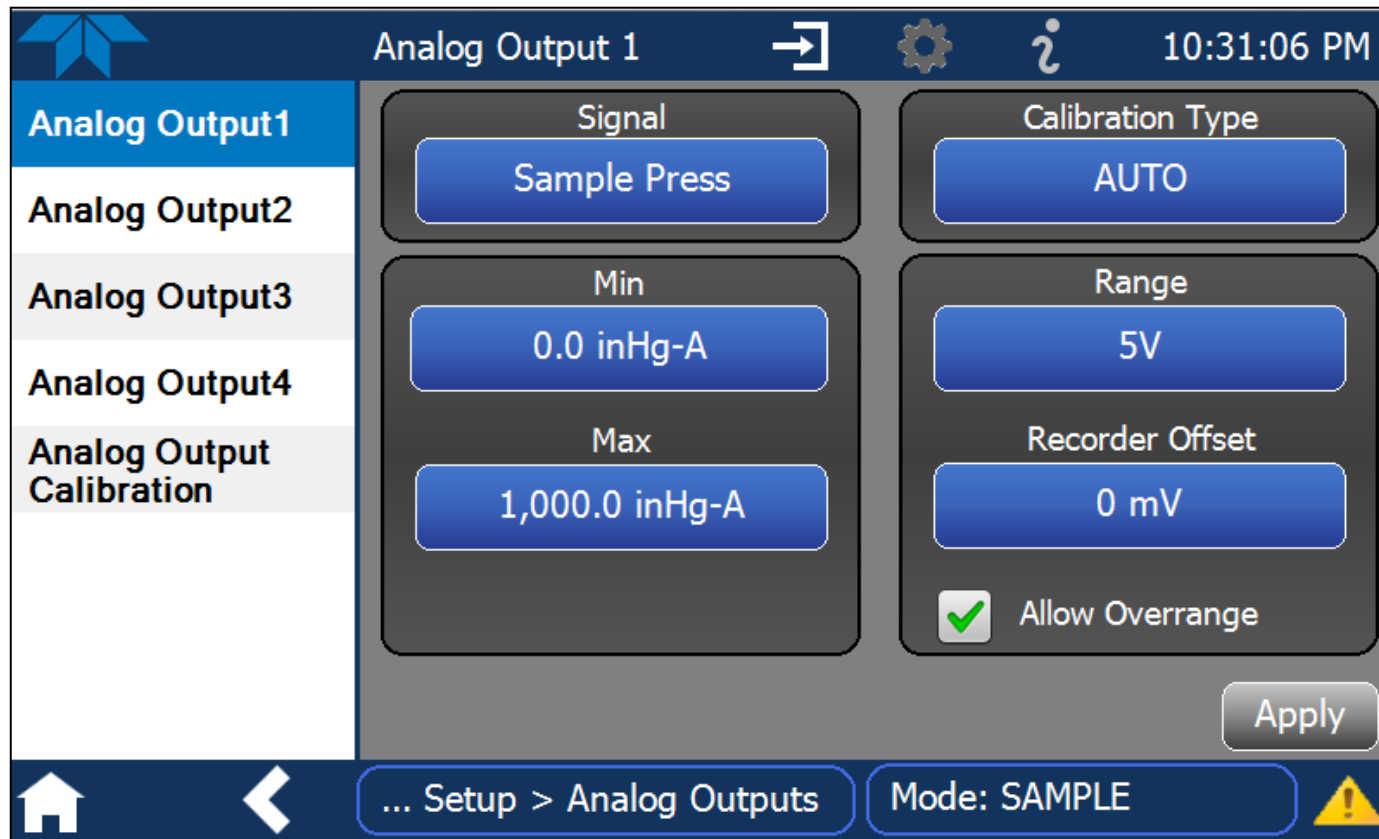
Outputs	Signals
Digital Output 1 +ASF_SYSTEM_OK	ACAL1_SEQ_ACTIVE Denotes whether the autocal sequence #1 is cure...
Digital Output 2 +ASF_LAMP_ALARM	ACAL2_SEQ_ACTIVE Denotes whether the autocal sequence #2 is cure...
Digital Output 3 +ASF_SYSTEM_FAULT_WA...	ACAL3_SEQ_ACTIVE Denotes whether the autocal sequence #3 is cure...
Digital Output 4 +ASF_CAL_HIGH_SPAN_A...	ASF_CAL_HIGH_SPAN_ACTIVE Denotes span calibration (high) is active
Digital Output 5 +ASF_CONCENTRATION_V...	ASF_CAL_LOW_SPAN_ACTIVE Denotes whether span calibration (low) is active
Digital Output 6 +ASF_FLOW_ALARM	ASF_CAL_ZERO_ACTIVE Denotes whether zero calibration is active

Polarity Map Apply

> Home > Setup Mode: SAMPLE

Analog Outputs

Quickly map floating point tags to any physical output



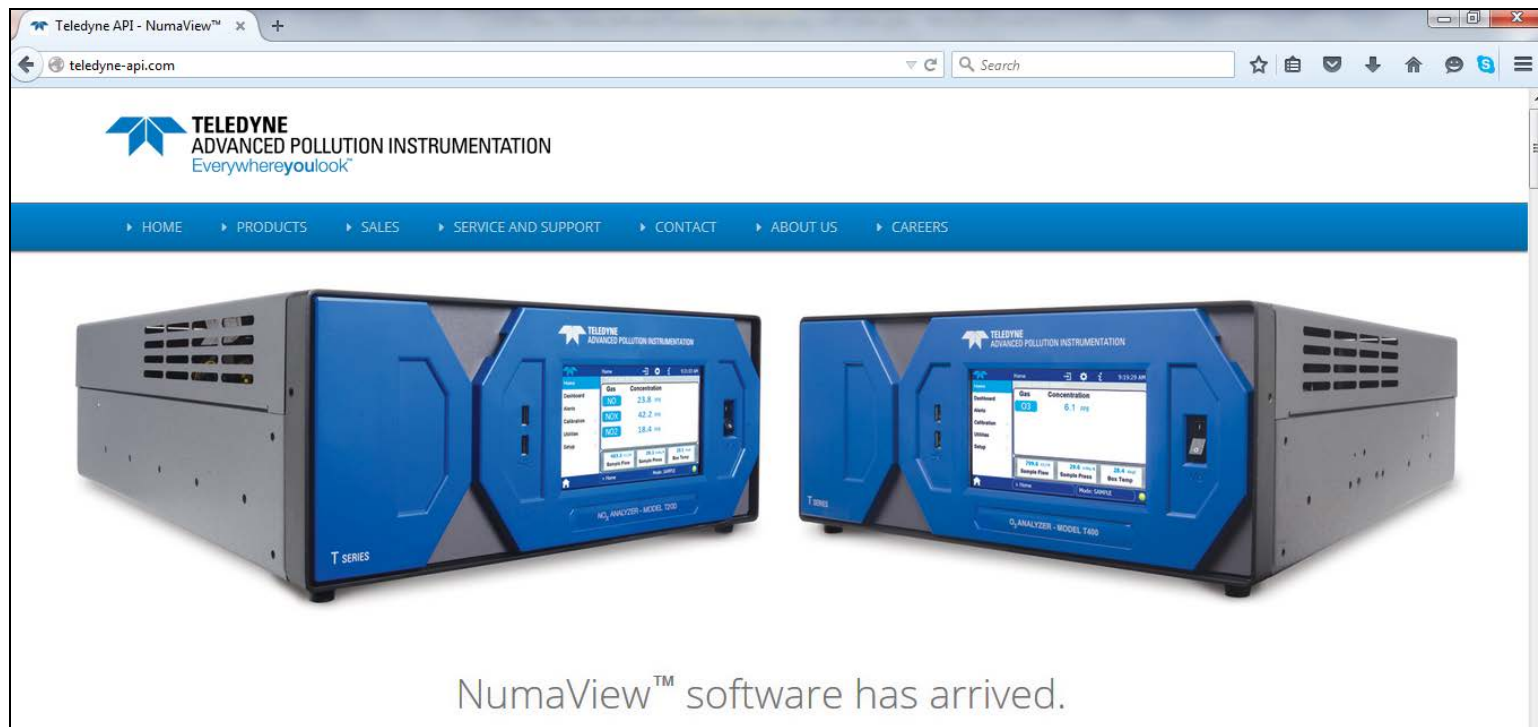
The screenshot displays the 'Analog Output 1' configuration screen in the NumaView interface. The top status bar shows the title 'Analog Output 1', navigation icons, a gear icon, an information icon, and the time '10:31:06 PM'. On the left, a vertical list shows 'Analog Output1' as the selected item, with other options being 'Analog Output2', 'Analog Output3', 'Analog Output4', and 'Analog Output Calibration'. The main area is divided into two columns of configuration options, each with a blue button for selection:

- Signal:** Sample Press
- Calibration Type:** AUTO
- Min:** 0.0 inHg-A
- Range:** 5V
- Max:** 1,000.0 inHg-A
- Recorder Offset:** 0 mV
- Allow Overrange:** ☒

An 'Apply' button is located at the bottom right of the configuration area. The bottom navigation bar includes a home icon, a back arrow, a breadcrumb trail '... Setup > Analog Outputs', the current mode 'Mode: SAMPLE', and a warning icon.

Learn More: Our Website

- www.teledyne-api.com
- NumaView™ software brochure download





NumaView™ software

Teledyne Advanced Pollution Instrumentation