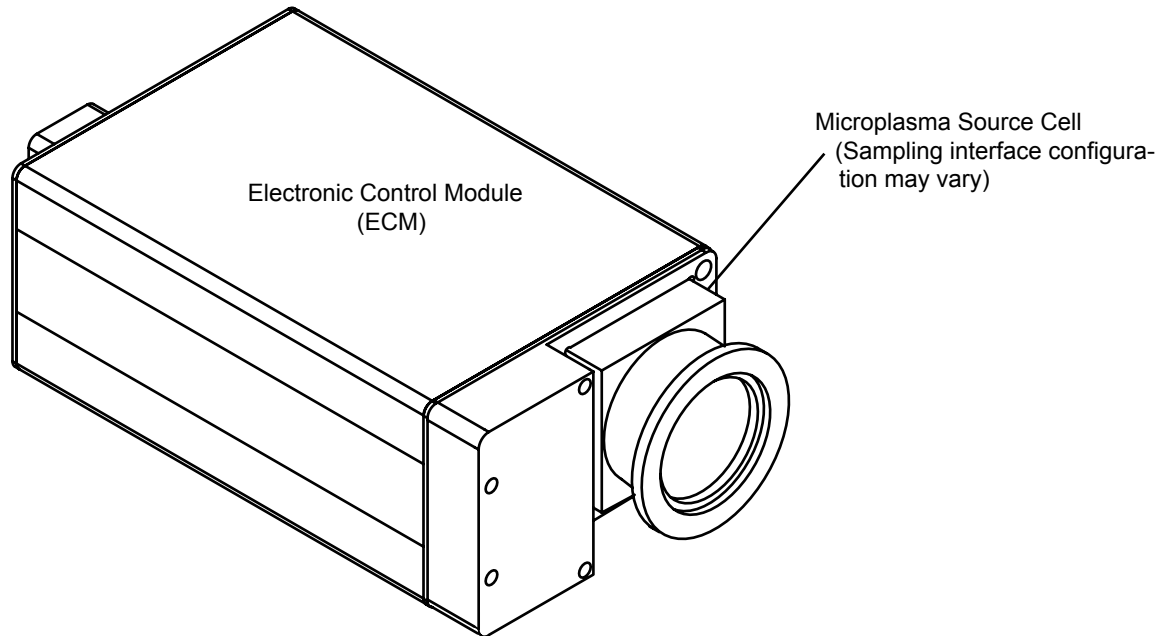


Vx-6100 Series Trace Gas Sensor Quick Installation Guide

P/N 910033R5 (March 2009)



Applicable Models

All Vx-6100 Series Trace Gas Composition Sensors

Table 1 Power Connector	
Pin #	Connection
1	+20-30 VDC
2	+20-30 VDC
3	Ground
4	Ground

Facilities Requirements

Power:	20-30 VDC @ 3A A 100-240 VAC@50/60 Hz to 24 VDC converter with connector is provided. (Verionix P/N 470014) (Bare connectors are available from Verionix or from Digikey P/N HR110-HD. Connect per Table 1)
Vacuum Chamber Interface:	NW-40 (KF-40) flange, seal and clamp (Sampling Interface may differ by model)
Communications:	Serial (DB9), Ethernet (RJ-45) or Digital/Analog (DB15), depending on interface
Facilities Gas, CDA , Water:	None required
Approximate Weight:	3.9 lbs (1.8 kg)
Interface Computer:	Not required if monitoring analog output signal from Digital/Analog interface. A networked computer with Browser (Microsoft IE or similar) is required to setup the Sensor when using <i>Web Viewer</i> . Serial and Modbus/TCP interfaces also available.
Other Accessories: (User provided)	USB to DB9 adapter for Interface Computers having USB serial ports only. Two DB15 connectors and cables required for digital and analog signaling.

Installing the Vx-6100 Series Trace Gas Sensor

Before you start

- **CONFIRM** that use of a microplasma will not adversely affect the gases being monitored.
- **CONFIRM** that all facilities required have been installed and are operational. (See previous page)
- **READ** the safety section below and follow all safety precautions.
- **REVIEW** the installation process thoroughly before beginning work.

Safety



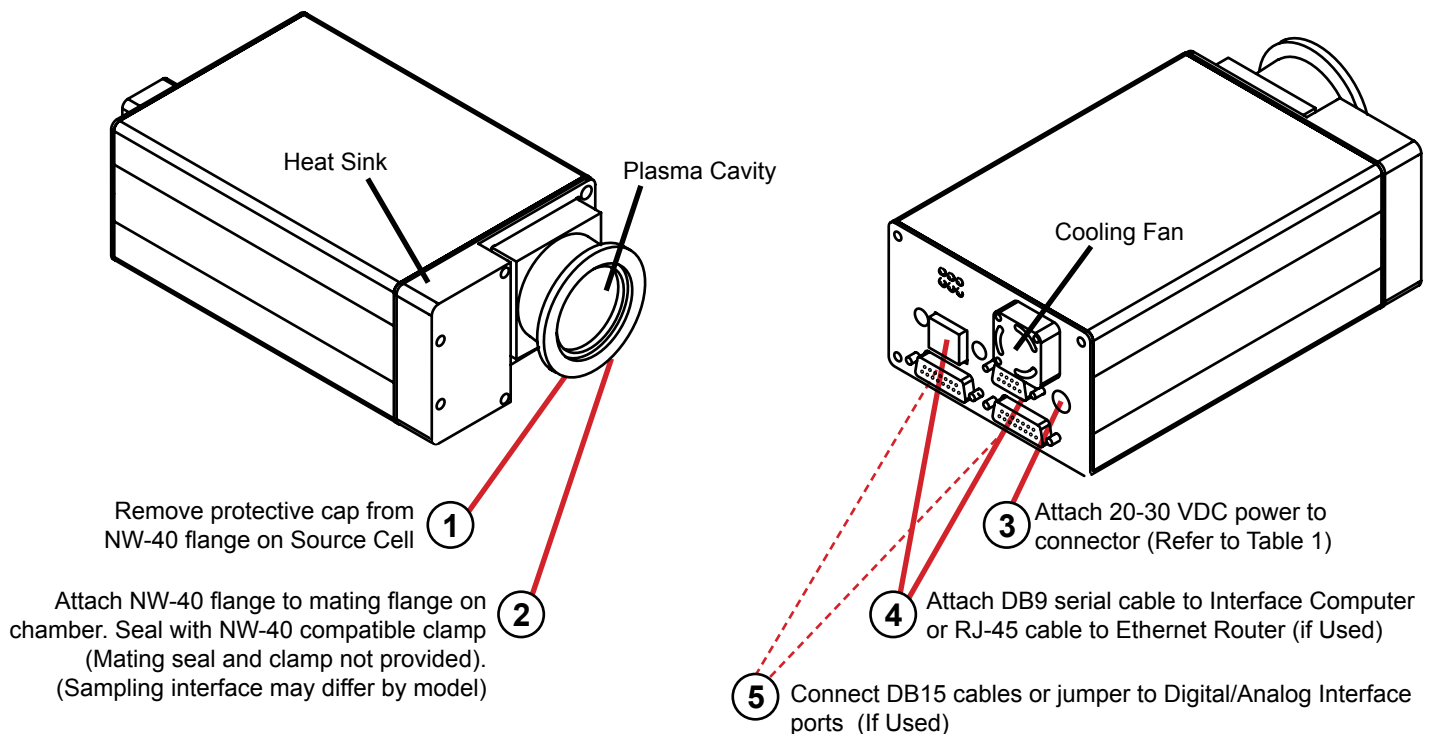
DO NOT operate the sensor without its protective enclosure.

DO NOT touch the microplasma within the Microplasma Source Cell's cavity.

DO NOT block either the Vent Holes on the ECM's front panel or the Cooling Fan on the rear panel.

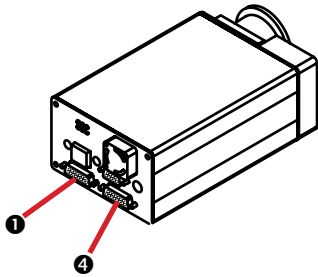
Vx-6100 Series Installation

Follow the numbered steps below to install the Verionix Vx-6100 series gas composition sensor:



Starting & Communicating with the Vx-6100 Trace Gas Sensor

Quick Start using the Digital/Analog Interface and Jumper (Supplied)



The Vx-6100 is factory-set to permit the Sensor to autostart if a supplied jumper is inserted into the Digital/Analog Interface. Upon starting, the Sensor will measure trace concentration in the HIGH range. The jumper may be reconfigured.

To start the Sensor through its Digital/Analog Interface, do the following:

1. Insert the Verionix-supplied jumper into the Digital I-O port on the rear panel.
2. Plug the supplied 120VAC-to-24VDC converter into any wall outlet and attach the other end of the power supply to the connector on Sensor rear panel.
3. The LEDs on the rear panel and the Microplasma should light in seconds.
4. Measure the DC voltage output on Pin 7 of the Analog I-O port. If Sensor is operational, voltage output will be between 0 and +4.1 VDC (if < HIGH limit).
5. Removing the jumper will place Sensor in STANDBY mode in LOW Range.

Establishing Communications with Sensor using *Web Viewer*



Verionix Finder

Verionix' *Web Viewer* Interface presents data and allows control of Vx-6100 series sensors through a Ethernet network connection and a standard web Browser, including:

- Display of Trace Concentration Levels
- Sensor Calibration
- State of Digital/Analog Interface
- Sensor Configuration

To establish network communications with the sensor, do the following:

1. Connect Sensor to network using RJ-45 connector on rear panel
2. Connect 24VDC power to Sensor through rear panel connector
3. To locate Sensor and its IP address on network (assigned with DHCP), install and use *Verionix Finder* (www.Verionix.com/downloads/software/vf.zip) or other similar program for locating IP network devices. *Verionix Finder* will need to be installed on Host connected to the same network. The Host computer may need to be re-booted to complete installation of this software.
4. Once the IP address has been identified (e.g., **192.168.112.124**), launch a Browser (such as Internet Explorer) on the Host.
5. In the URL box, enter `http://xxx.xxx.xxx.xxx/index.htm`, where x ..x is the current IP address of the Sensor
6. If successfully connected, the Sensor will launch its Login Page as shown.
7. If prompted, permit the Browser to display webpage Active-X and Java scripts
8. From the Login screen, enter User ID = **webuser**, Password = [Sensor Serial Number] - shown at top of Login Screen
9. Click the **<Login>** button to continue onto other pages.
10. For more information on the *Web Viewer*, consult the Vx-6100 User's Guide



Web Viewer Login Page

Additional Product Information and Support

If you have additional questions or need more information, please e-mail us at Support@Verionix.com or visit us at www.Verionix.com. At our website you can download the latest versions of the Vx-6100 Series User's Guide, product specifications and related interface software.