



# BRASCH

ENVIRONMENTAL TECHNOLOGIES

## TRNS Generation 2

### Quick Start Guide



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# Quick Start Guide

Please read the entire manual before attempting to install and operate this gas transmitter. This guide is only intended to provide the basic steps necessary for installation and operation. Each step will reference the portion of the manual where more complete information can be obtained.

## Step 1 – Mounting

Determine the location for mounting your transmitter(s). The location(s) may be indicated on the architectural drawing. Also, the owner or designer of the facility may be consulted. Mounting guidelines can be found on page 12 of the manual.

## Step 2 – Input Wiring

### WARNING

This transmitter may require the use of voltage levels high enough to cause fatal injuries. Proper procedures must be followed any time work is performed on this unit.

Only qualified personnel should attempt to install, maintain, or service this equipment.

Provide a dedicated circuit at the required 24 VAC and 6 VA at each transmitter mounting location. Follow all national and local wiring codes. The wiring should be at least 14 AWG. A conductor connected to earth ground should also be provided. The circuit must include a disconnect switch located within easy reach of the transmitter.

### CAUTION

Operating this transmitter with the incorrect voltage and power requirements can cause internal electrical components to overheat and fail. Operation with the wrong power requirement will void the manufacturer's warranty and the installer will be responsible for any damage that occurs.

Contact Brasch Environmental Technologies, LLC before connecting power to the transmitter if you are unsure of the correct power requirement.

Color-coded wires exiting the transmitter housing through the top conduit connector are provided for connecting the operating voltage to the transmitter. Therefore, it should not be

necessary to remove the front cover from the transmitter when connecting the voltage supply. Connect the hot power conductor to the black wire and the neutral conductor to the white wire. Refer to page 13 in the manual for further information.

### **Step 3 – Output Wiring**

The transmitter conveys its sensor signal over two wires. Use a two-conductor shielded cable for each transmitter in the system. As with the input power connections, color-coded wires exit the transmitter housing through the top conduit fitting so removal of the front cover should not be necessary. When using the analog output, the positive conductor connects to the red wire and the reference conductor connects to the green wire. When using the digital output, the positive conductor connects to the brown wire and the negative conductor connects to the blue wire.

See figures 1 and 2 on page 16 of the manual for wiring diagrams.

### **Step 4 – Applying Power**

Once you are sure that the wiring connections are correct, apply power to the transmitter circuit. When power is first applied, the green power indicator will glow, indicating the transmitter is active. The unit will begin transmitting its signal through the output immediately; however, you should wait at least 2.5 minutes before taking any gas measurements as the sensor will still be warming up.

See page 15 of the manual for more information concerning the initial startup.

At this point, the transmitter is now ready to monitor for the presence of the target gas.

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