Ideal Vacuum®

OUR PRODUCTS DEVELOP TOMORROW'S TECHNOLOGIES™

Service Manual

Cleaning Thermocouple Gauges

For Teledyne-Hastings and Agilent Thermocouple Gauges

SM-CTG-10112023 - V1.0.2

SAFETY

⚠ CAUTION

Service should only be performed by trained, qualified personnel, wearing appropriate protective equipment including eye protection and gloves.

SENSOR CLEANING OVERVIEW

This service manual provides step-by-step instructions for cleaning thermocouple (TC) sensors. Over time, particularly with dirty processes, sensors can become contaminated with organic residue. This will cause inaccurate readings, and may eventually cause a sensor failure.

Note that TC gauges will not read accurately if they are not mounted upright (oriented with the connector or flange down).

We recommend cleaning TC sensors regularly. It is important to clean your with an appropriate solvent.

Please attempt to clean the sensor before purchasing a replacement or contacting us for service.

TOOLS, MATERIALS AND SUPPLIES CHECK LIST

✓	Needed
	Safety Glasses and Gloves
	Isopropyl Alcohol (IPA) for Teledyne Sensors
	Acetone for Agilent Sensors
	Small Square of Aluminum Foil

CUSTOMER SERVICE AND SUPPORT

If you have any questions concerning the installation or operation of this equipment, or if you need warranty or repair service, please contact us. Customer Service and Technical Support is available weekdays, from 8am-5pm, Mountain Time.

Phone: (505) 872-0037
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STEP 1

Disconnect the sensor from the cable.

Pull. Do not twist.

STEP 2

Get the solvent:

- Use Isopropyl Alcohol (IPA) for Teledyne-Hastings sensors.
- Use Acetone for Agilent 531 or 536 sensors.

Position the sensor upside down so that the connector or flange is facing up.

Inject or pour about a tablespoon (15 ml) of solvent into the stem of the sensor.

Do not fill the sensor stem completely.

STEP 3

Hold a finger over the orifice and shake the solvent inside the sensor tube.

Get the aluminum foil and place it over the sensor stem. This will keep the solvent from evaporating.

Let the sensor sit for about 60 minutes.

During this period, shake occassionally.

STEP 4

After an hour, pour out the solvent.

Lightly tap the back of the sensor, or shake it to get it to come out. Do not tap it on a hard surface. It can damage the sensor.

Steps 2-4 may need to be repeated until all contaminants are dissolved and eliminated.

When clean of contaminants, clear liquid should come out of the sensor tube.

Put the sensor safely away and let it air dry.

DO NOT dry it with compressed air or stick anything into the sensor tube.

When completely dry, reconnect it to the gauge cable.

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