

PT-200 SERIES

0.5% Industrial Pressure Transmitter

USER MANUAL



Automation Products Group, Inc.

Automation Products Group, Inc.
1025 W 1700 N Logan, UT 84321
apgsensors.com | (435) 753-7300 | sales@apgsensors.com

Doc # 9004739
Rev. C2 | 06/2026

TABLE OF CONTENTS

Introduction	1
Reading Your Label	1
Warranty Statement	1
Chapter 1: Specifications & Options	2
Dimensions	2
Electrical Connectors, Pinout Table, & Supply Power Table	4
Wiring Diagram	4
Chapter 2: Install & Removal Procedures & Notes	5
Tools Needed	5
Mounting Instructions	5
Electrical Installation	5
Removal Instructions	5
Chapter 3: Maintenance	6
General Care	6
Repair and Returns	6

NOTE: Find additional product documents, specifications, accessories, and more on the PT-200 online product page. Go to: apgsensors.com/product/pt-200

INTRODUCTION

Thank you for purchasing a series PT-200 0.5% industrial pressure transmitter from APG. We appreciate your business! Please take a few minutes to familiarize yourself with your PT-200 and this manual.

The series PT-200 pressure transmitters are rugged, general purpose sensors that offer reliable and accurate measurements under harsh conditions. The sensor fitting is machined from a solid piece of 174PH to provide stable operation when subjected to shock and vibration. PT-200s also incorporate digital compensation and temperature correction for high accuracy and stability.

Reading Your Label

Every APG instrument comes with a label that includes the instrument's model number, part number, serial number, and a wiring pinout table. Please ensure that the part number and pinout table on your label match your order.

WARRANTY STATEMENT

This product is covered by APG's warranty to be free from defects in material and workmanship under normal use and service of the product for 24 months. For a full explanation of our Warranty, please visit

apgsensors.com/warranty-returns/.

Contact Technical Support to receive a Return Material Authorization (RMA) before shipping your product back.

If your product needs to be returned for evaluation, contact us via email, phone, or online chat on our website. We will issue you an RMA number with instructions. You can also find the form on our website by clicking "RMA" in the web footer, or go to

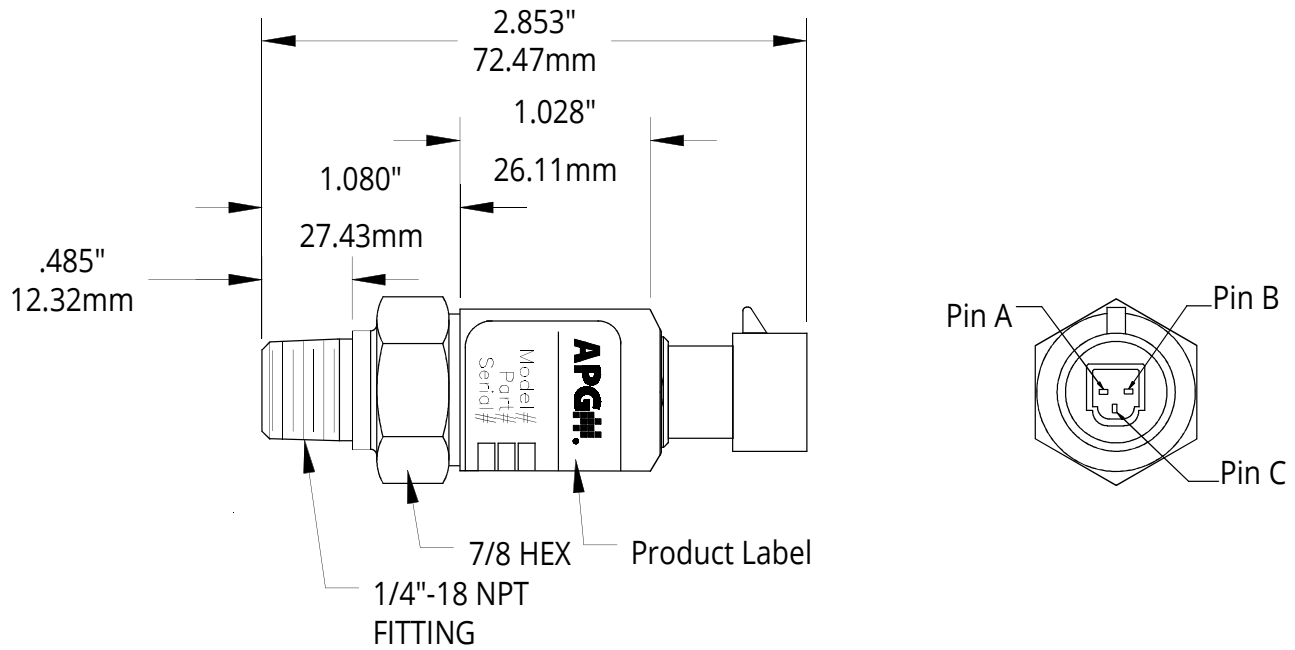
apgsensors.com/RMA-form.

- Phone: (435) 753-7300
- Email: sales@apgsensors.com
- Online chat at apgsensors.com

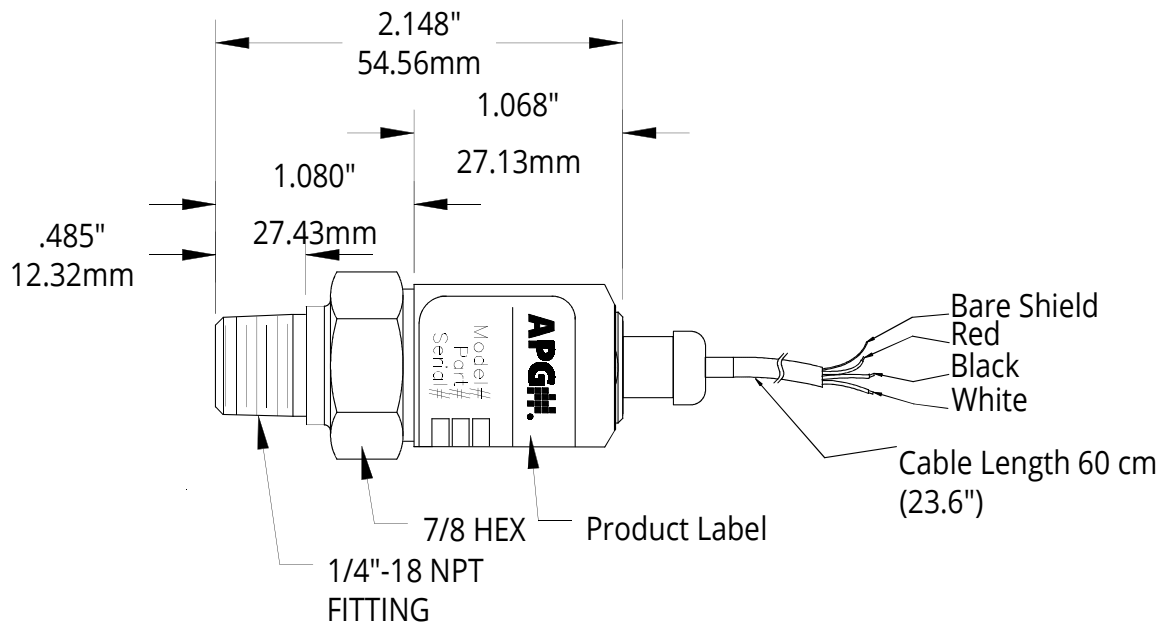
Please have your part number and serial number available.

CHAPTER 1: SPECIFICATIONS & OPTIONS

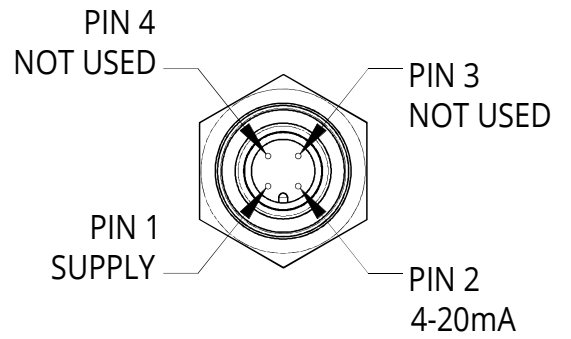
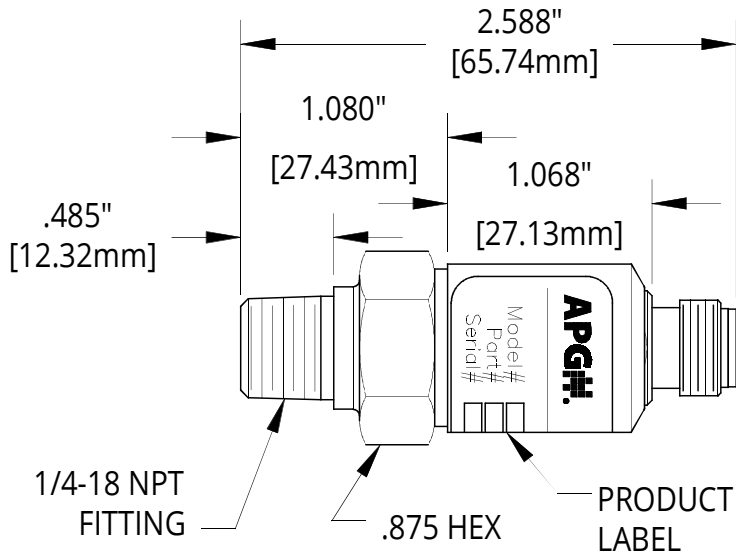
Dimensions



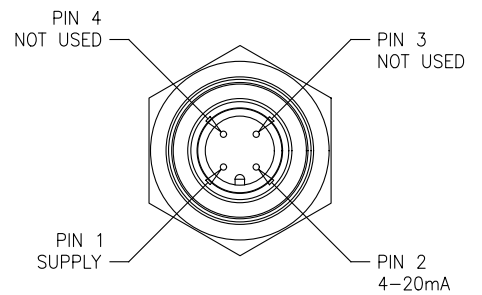
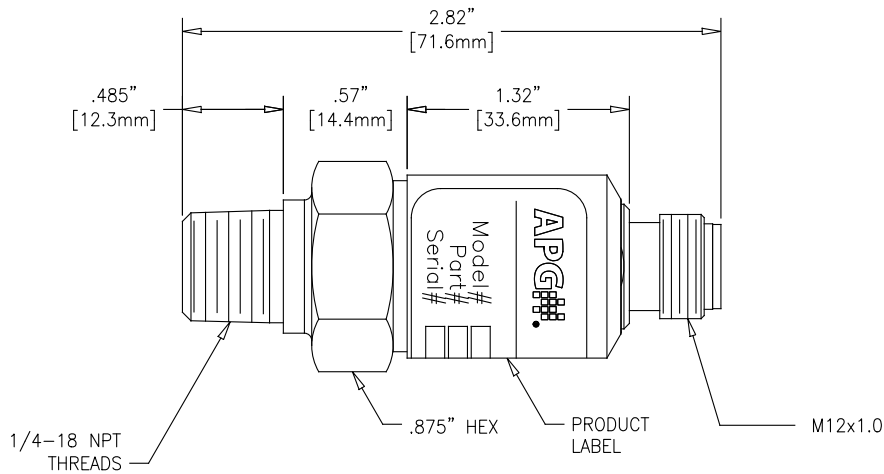
Packard Connector



3-Conductor Pigtail



M12 Connector

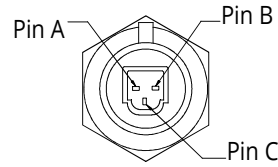


M12 Connector for 100 psi and 150 psi Units

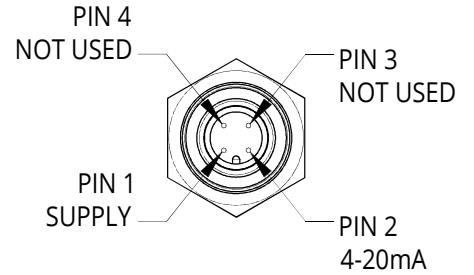
Electrical Connectors, Pinout Table, & Supply Power Table

PT-200 Pin Out Table

	Packard Connector	Pigtail 3/C with Shield	M12 Connector
- Excitation	A	Black	Pin 2
+ Excitation	B	Red	Pin 1
No Connection	C	White	Pins 3,4
Gnd	-	Shield	



Packard Connector

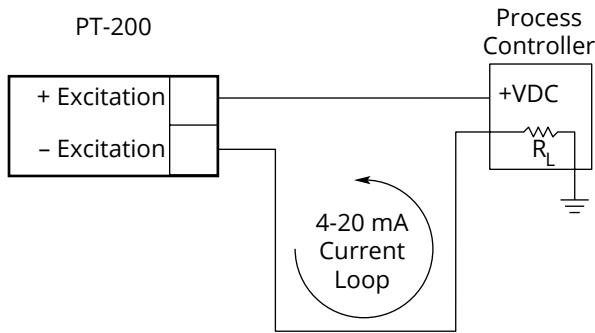


M12 Connector

PT-200 Series Supply Power Table

	4-20 mA
Power Supply	9-32 VDC

Wiring Diagram



4-20 mA Output Wiring Diagram

The 4-20 mA PT-200 is a 2 wire, loop powered transducer/transmitter. A voltage of between 9 and 32 VDC must be maintained at this connection. Completion of the earth or system ground is recommended for proper circuit protection.

Power supply voltage must be sufficient to maintain a minimum of 9 VDC at the transducer/transmitter terminals after "dropping" voltage across R_L at full scale current (20 mA). Example: If $R_L = 250 \Omega$ then "drop" is $0.02 \text{ Amps} \times 250 \Omega = 5 \text{ volts}$. Therefore power supply minimum is $5 \text{ V} + 9 \text{ V} = 14 \text{ V}$.

CHAPTER 2: INSTALL & REMOVAL PROCEDURES & NOTES

Tools Needed

- 7/8" Hex wrench
- Thread tape or sealant compound for threaded connections

Mounting Instructions

Mounting your pressure transducer is easy if you follow a few simple steps:

- Never over-tighten the sensor. This can compress the diaphragm, changing how it reacts to pressure. In all cases, tighten the sensor as little as possible to create an adequate seal.
- Always use thread tape or sealant compound on tapered threads. Wrap thread tape in the opposite direction of the threads so it does not unravel as you screw the sensor into place. Unraveling can cause uneven distribution and seal failure.
- Always start screwing in your sensor by hand to avoid cross-threading. Thread failure can be a problem if you damage threads by over-tightening them or by crossing threads.

Electrical Installation

- Check the pinout table on your PT-200 against your order.
- Check that your electrical system wiring matches the pinout table on your PT-200.
- For instruments with connectors, make the connection. For instruments with pigtailed, run the cable to a junction box in a suitable location to connect to your system.

Removal Instructions

Removing your PT-200 from service must be done with care. It's easy to create an unsafe situation, or damage your sensor, if you are not careful to follow these guidelines:

- Make sure the pressure is completely removed from the line or vessel where your sensor is installed. Follow any and all procedures for safely isolating any media contained inside the line or vessel.
- Remove the sensor with an 7/8" Hex wrench.
- Carefully clean the sensor's fitting and diaphragm of any debris (see General Care) and inspect for damage.
- Store your sensor in a dry place, at a temperature between -20 to 125°C (-4 to 257°F).

⚠ DANGER: Removing your PT-200 Pressure Transmitter while there is still pressure in the line could result in injury or death.

CHAPTER 3: MAINTENANCE

General Care

Your PT-200 series pressure transmitter is very low maintenance and will need little care as long as it is installed correctly. However, in general, you should:

- Keep the transmitter and the area around it generally clean.
- Avoid applications for which the transmitter was not designed, such as extreme temperatures, contact with incompatible corrosive chemicals, or other damaging environments.
- Inspect the threads whenever you remove the transmitter from duty or change its location.
- Avoid touching the diaphragm. Contact with the diaphragm, especially with a tool, could permanently shift the output and ruin accuracy.
- Clean the diaphragm or the diaphragm bore with extreme care. If using a tool is required, make sure it does not touch the diaphragm.

ⓘ IMPORTANT: Any contact with the diaphragm can permanently damage the sensor. Use extreme caution.

Repair and Returns

Should your PT-200 series pressure transmitter require service, please contact the factory via phone, email, or online chat. We will issue a Return Material Authorization (RMA) number with instructions.

- Phone: 888-525-7300
- Email: apgsensors.com
- Online chat at apgsensors.com

Please have your PT-200's part number and serial number available. See Warranty Statement for more information.

📄 NOTE: You may also return the PT-400 to the factory for repair and/or readjustment.



Automation Products Group, Inc.
1025 W 1700 N Logan, UT 84321