# PT-400 User Manual



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## Introduction

Thank you for purchasing a PT-400 series pressure transmitter from APG. We appreciate your business! Please take a few minutes to familiarize yourself with your PT-400 and this manual.

The PT-400 series of pressure transmitters offers reliability over a wide range of pressures and in harsh industrial conditions and hazardous locations. It is certified intrinsically safe for hazardous areas in the US, Canada, Europe and internationally by CSA, ATEX, and IECEx for Class 1, Zone 0 environments. The small size, integrated electronics, wide operating temperature range, and durability, make the PT-400 the perfect instrument for static and dynamic pressure measurements with an amplified output signal.

#### **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. The following electrical ratings and approvals are also listed on the label. Please refer to the Certificate of Compliance and Declaration of Conformity at the back of this manual for further details.

#### **Electrical ratings**

Input: 9 to 28 Volts DC; Outputs: 4-20mA / 0-5VDC / 0-10VDC (per order)

Exia Class I Division 2; Groups C, D T4

Class I, Zone 2, Group IIB

AEx nC IIB T4: Ta: -40°C to 85°C S Ex nL IIB T4: Ta: -40°C to 85°C

Maximum Warking Programs 10,000

Maximum Working Pressure: 10,000 PSI

PT-400-L1 (4-20mA)

Vmax  $U_i$ = 28VDC, Imax  $I_i$ = 110mA, Pmax  $P_i$  = 0.77W,  $C_i$  = 0.055 $\mu$ F,  $L_i$  = 7.95 $\mu$ H Install in accordance with drawing 9002794, sheet 2 (page 9).

PT-400-L3/L10 (0-5V/0-10V)

Vmax  $U_i$ = 28VDC, Imax  $I_i$  = 110mA, Pmax  $P_i$  = 0.77W,  $C_i$  = 0 $\mu$ F,  $L_i$  = 0 $\mu$ H Install in accordance with drawing 9002794, sheets 3 & 4 (page 10 & 11).

Input: 9 to 28 Volts DC; Output: 4-20mA (per order)

Exia Class I Division 1; Groups C, D T4

Class I, Zone 0, Group IIB

AEx ia IIB T4: Ta: -40°C to 85°C

Sex ia IIB T4: Ta: -40°C to 85°C

Maxium Working Pressure: 10,000 PSI

Vmax  $U_i$ = 28VDC, Imax  $I_i$ = 110mA, Pmax  $P_i$  = 0.77W,  $C_i$  = 0.055 $\mu$ F,  $L_i$  = 7.95 $\mu$ H Install in accordance with drawing 9002794, sheet 1 (page 8).

**1** IMPORTANT: Your PT-400 MUST be installed according to drawing 9002794 (Intrinsically Safe Wiring Diagram or Non-Incendive Wiring Diagrams) as indicated above to meet listed approvals. Faulty installation will invalidate all safety approvals and ratings.

#### The following approvals only apply to the L1 (4-20mA) version

ATEX Directive:  $\bigcap$  60518 Sira 12ATEX 2294

II 1G Ex ia IIB T4 Ga Ta: -40°C to 85°C

 $U_i \le 30 \text{ V}, \ I_i \le 110 \text{ mA}, \ P_i \le 1 \text{ W}, \ C_i \le 60.89 \text{ nF}, \ L_i \le 10.95 \ \mu\text{H}$ 

IECEX CSA 13.0004 Ex ia IIB T4 Ga

# **Warranty and Warranty Restrictions**

APG warrants its products to be free from defects of material and workmanship and will, without charge, replace or repair any equipment found defective upon inspection at its factory, provided the equipment has been returned, transportation prepaid, within 24 months from date of shipment from factory.

THE FOREGOING WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES NOT EXPRESSLY SET FORTH HEREIN, WHETHER EXPRESSED OR IMPLIED BY OPERATION OF LAW OR OTHERWISE INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

No representation or warranty, express or implied, made by any sales representative, distributor, or other agent or representative of APG which is not specifically set forth herein shall be binding upon APG. APG shall not be liable for any incidental or consequential damages, losses or expenses directly or indirectly arising from the sale, handling, improper application or use of the goods or from any other cause relating thereto and APG's liability hereunder, in any case, is expressly limited to the repair or replacement (at APG's option) of goods.

Warranty is specifically at the factory. Any on site service will be provided at the sole expense of the Purchaser at standard field service rates.

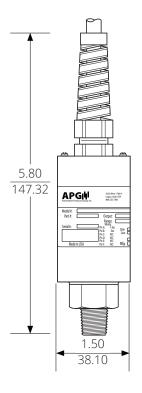
All associated equipment must be protected by properly rated electronic/electrical protection devices. APG shall not be liable for any damage due to improper engineering or installation by the Purchaser or third parties. Proper installation, operation and maintenance of the product becomes the responsibility of the user upon receipt of the product.

Returns and allowances must be authorized by APG in advance. APG will assign a Return Material Authorization (RMA) number which must appear on all related papers and the outside of the shipping carton. All returns are subject to the final review by APG. Returns are subject to restocking charges as determined by APG's "Credit Return Policy".



# **Chapter 1: Specifications and Options**

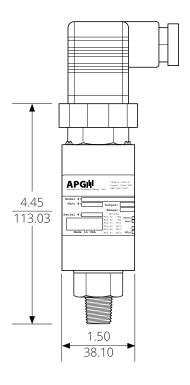
## Dimensions



PT-400 with Pigtail and NPTM

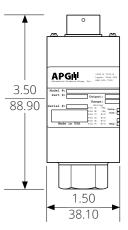


PT-400 with 4 or 6 pin Bayonet on Extended Can and NPTF



PT-400 with DIN 43650 and L-Bracket and NPTM

Total length of PT-400 with DIN 43650 and L-Bracket is equal to total length of PT-400 with Pigtail.



PT-400 with 4 or 6 pin Bayonet and NPTF

## Specifications

#### **Performance**

Pressure Ranges 0 to 40K PSIS (Per Part Number)
Analog Output 4-20mA, 0-5VDC, 0-10VDC

Over Pressure 2X Full Scale or limit of fitting, whichever is less
Burst Pressure 3.0X Full Scale or limit of fitting, whichever is less

#### **Accuracy**

Linearity, Hystereses & Repeatability ±0.25% of Full Scale (BFSL)

Thermal Zero Shift  $[\pm 0.036\% \text{ FSO/°C} \ (\pm 0.02\% \text{ FSO/°F})]$ Thermal Span Shift  $[\pm 0.036\% \text{ FSO/°C} \ (\pm 0.02\% \text{ FSO/°F})]$ 

#### **Environmental**

Operating Temperature -40 to 85°C (-40 to 185°F) Compensated Temperature -17 to 54°C (0 to 130°F)

Enclosure Protection IP65

#### **Electrical**

Supply Voltage (at sensor) 4-20 mA: 9-28 VDC

0 to 5 VDC: 9-28 VDC 0 to 10 VDC: 12.5-28 VDC 4-20 mA: 3-30 mA max. 0 to 5 VDC: 7mA max

0 to 10 VDC: 14mA max

#### **Masterials of Construction**

Output Signal @ 21°C

Wetted Materials 316L or 17-4 Stainless Steel

Enclosure 316L Stainless Steel

#### Mechanical

Pressure Connection See model number configurator for complete list

Weight 283g (10 oz.)

# • Model Number Configurator

Part Nu	ımber: PT-400 -				·		·				
		Α	В	С	D	Е	F	G	Н	I	J
A. Op	eration / Ou	ıtput					F	F. Ele	ctrical	Cable	e Length
□ L1 4 - 20 mA output □ L3 0 - 5 VDC output □ L10 0 - 10 VDC output					[	<ul> <li>Number represents cable length, in 5-ft increments, included on E5, E19, &amp; E38 options.</li> <li>(ex. E5-10 equals pigtail, 10 ft cable)</li> </ul>					
Modbu	JS						(	G. Pro	ocess (	Conne	ction
□ <b>L</b> 5	RS-485 (Modbu Pressure readin (Approvals Pend	g only		ire				□ <b>PO</b> 1/4 - 18 NPTM, 316L SS □ <b>P1</b> 1/2 - 14 NPTM			
□ L31	RS-485 (Modbu Level calculation (Approvals Pend	ns, tar						□ P5 □ P6	1/4 - 18	NPTF above	500 psi; 316L SS below 500 psi 500 psi; 316L SS below 500 psi
B. Co	mmon Press		Rang	es - l	PSI*			□ P6	17-4 SS	above	500 psi; 316L SS below 500 psi
□ 5	□ 50 □ 200	<b>C</b> □	1000	□ 50	000				<ul> <li>9 H.P. SnoTrik female (F-250C, Autoclave female) 17-4 SS about</li> <li>30 H.P. SnoTrik male (M-250C, Autoclave female) 17-4 SS about</li> <li>38 1 1/2 in. tri-clover with 3/4 in. diaphrage Available on ranges below 500 psi, 316L</li> <li>52 1 1/2 in. NPTM flushmount w/ 1/2in. dia</li> </ul>		
□ <b>15</b> □ <b>30</b> *Ot	□ 60 □ 300 □ 100 □ 500 □ her ranges availa	<b>o</b> 🗆	<b>3000</b> lease (	)	0000 factory	y.					
C. Un	its of Measu	re							Available	e on rar	nges below 5K, 316L SS
□ psi ⁴	<b>∆</b> □ bar	□ kPa		kgcm	² □ fs	sw	ŀ	H. Ac	curacy		
D. Pressure Type  □ A Absolute □ CG Compound Gaug					□ NO ▲ □ N1 □ N2		with N	IST certification ST certification (select ranges)			
	Sealed (100 psi Gauge (less thar	Ü		□ <b>V</b>	VAC		ı	I. Materials			
E. Ele	ectrical Conn	ectio	on					□ M1 ▲ □ M2		•	0,000 psi) ble on ranges > 200 psi)
□ <b>E3</b>	4 pin bayonet (			or equi	v.)		J	J. Ter	nperat	ure	
<ul> <li>□ E4 4 pin M12 micro connector.</li> <li>□ E5 Pigtail with cable (specify cable length below)</li> <li>□ E6 4 pin per DIN 43650, short can (mating connector included)</li> <li>□ E17 6 pin bayonet (PT02E-10-6P) short can</li> <li>□ E18 1/2 in NPTM with 6 in flying leads, short can</li> <li>□ E19 1/2 in NPTM with cable, short can</li> <li>□ E36 1/2 in NPTM with 6 in flying leads, long can</li> </ul>				□ <b>S0</b> Standard: 0° - 130°F (-17° - 54°C) □ <b>S1</b> Extended: -40° - 180°F (-40° - 82°C) □ <b>S4</b> Extended: 0° - 185°F (-17° - 85°C)			- 180°F (-40° - 82°C)				
	1/2 in NPTM with 4 pin per DIN 4 (mating connection)	3650 v	w/Sold	erless	screw,	long ca	ın				
▲ This o	ption is standard										

# • Electrical Connectors, Pinout Table, and Supply Power Table

PT-400 Series Pin Out Table

			4-20 mA	0-5 VDC	0-10 VDC
		А	+ Excitation	+ Excitation	+ Excitation
_	et	В	- Excitation	+ Output	+ Output
6 Pin	Bayonet	С	N/C	- Output	- Output
0	Bã	D	N/C	- Excitation	- Excitation
		Е	N/C	N/C	N/C
		F	N/C	N/C	N/C



6 Pin Bayonet Connector

	,	Α	+ Excitation	+ Excitation	+ Excitation
i i	วเมลเ	В	- Excitation	+ Output	+ Output
4	Day	С	N/C	- Output	- Output
_	_	D	N/C	- Excitation	- Excitation



4 Pin Bayonet Connector

	1	+ Excitation	+ Excitation	+ Excitation
i Z	2	- Excitation	+ Output	+ Output
4 F	3	N/C	- Out/Exc	- Out/Exc
	4	Ground	Ground	Ground



4 Pin DIN Connector

	1	+ Excitation	+ Excitation	+ Excitation
7in 12	2	N/C	+ Output	+ Output
4 ≥	3	N/C	- Output	- Output
	4	- Excitation	- Excitation	- Excitation



4 Pin M12 Micro Connector

	Red	+ Excitation	+ Excitation	+ Excitation
tail	Grn	N/C	+ Output	+ Output
Pigtai	Wht	N/C	- Output	- Output
	Blk	- Excitation	- Excitation	- Excitation

N/C indicates no connection For alternate pinouts, please consult factory

## PT-400 Series Supply Power Table

	4-20 mA	0-5 VDC	0-10 VDC
Power Supply	9-28 VDC	9-28 VDC	12.5-28 VDC

# **Chapter 2: Installation and Removal Procedures and Notes**

#### Tools Needed

- Wrench sized appropriately for your PT-400's process connection.
- 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. On straight threads, tighten only until you feel the o-ring compress making sure you don't damage or extrude the o-ring.
- 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. For straight threads use an o-ring.
- 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-400 against your order.
- Check that your electrical system wiring matches the pinout table on your PT-400.
- For instruments with connectors, make the connection. Otherwise, attach your wires to the provided terminal strip.

#### Removal Instructions

Removing your PT-400 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 appropriately sized wrench (per your process connection).
- 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 -40° F and 180° F.

DANGER: Removing your PT-400 Pressure Transmitter while there is still pressure in the line could result in injury or death.

# **Chapter 3: Maintenance**

#### General Care

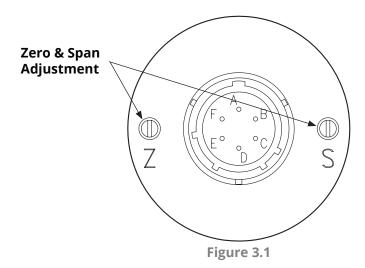
Your PT-400 series pressure transmitter is very low maintenance and will need little care as long as it was installed correctly. However, in general, you should:

- Keep the transmitter and the area around it generally clean.
- Avoid applications for which the transmitter was not designed, such as extrememe 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 diaphram.

### Zero Trimming

- Remove the protective screw.
- Ensure that the transmitter is at 0 psig or 0 psia (vacuum if absolute). For compound ranges, i.e., -15 psi to 30 psi, the 4 mA or 0 V set point is also at vacuum.
- Using a jeweler's screwdriver or a suitable instrument, adjust the "Z" pot until you have a 4 mA (4-20 mA) or 0 V (5 VDC, 10 VDC) output.

**1** IMPORTANT: Do not make changes to the Span adjustment (the "S" pot to the right, see Figure 3.1) as part of the zero trimming. The Span should only be changed as part of the recalibration of a gauge with a known pressure source.



#### Re-Calibration

This procedure requires a known pressure source of at least  $\pm 0.1\%$  accuracy in order to fully utilize the accuracy potential of the PT-400. (If not available, you can return it to the factory for re-calibration.)

- Ensure that the transducer is at 0 psig or 0 psia (vacuum if absolute), and adjust zero as per instructions for zero trimming.
- Apply full scale pressure to the pressure port and adjust the Span ("S") pot (on the right of Figure 3.1) until the full scale signal is reached.
- Re-check zero and re-adjust the zero ("Z") pot if required
- Repeat previous two steps until no further adjustment is required.

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

### Repair and Returns

Should your PT-400 series pressure transmitter require service, please contact the factory via phone, email, or online chat. We will issue you a Return Material Authorization (RMA) number with instructions.

• Phone: 888-525-7300

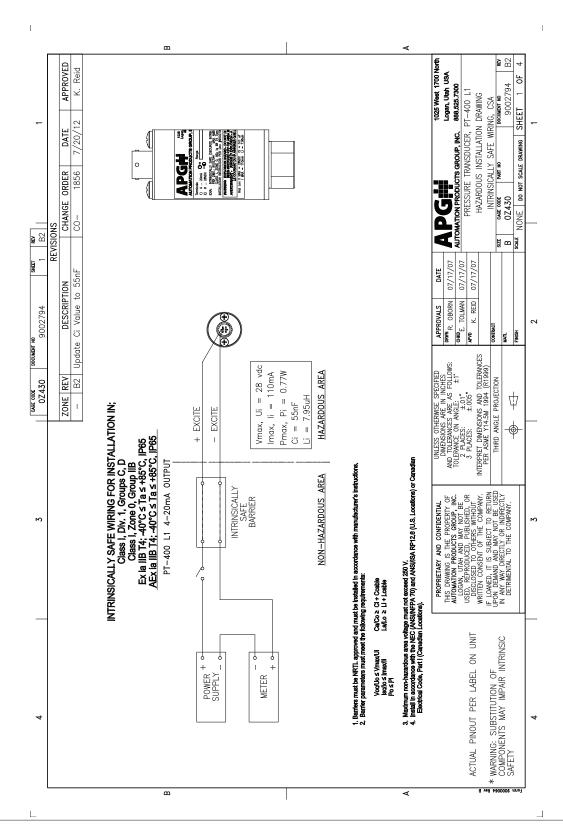
• Email: sales@apgsensors.com

Online chat at www.apgsensors.com

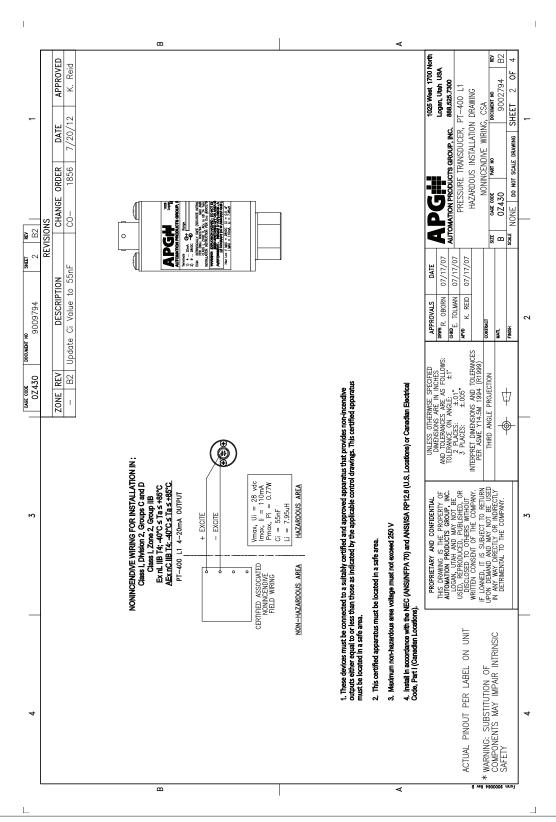
Please have your PT-400's part number and serial number available. See Waranty and Warranty Restrictions for more information.

# **Chapter 4: Hazardous Location Installation and Certification**

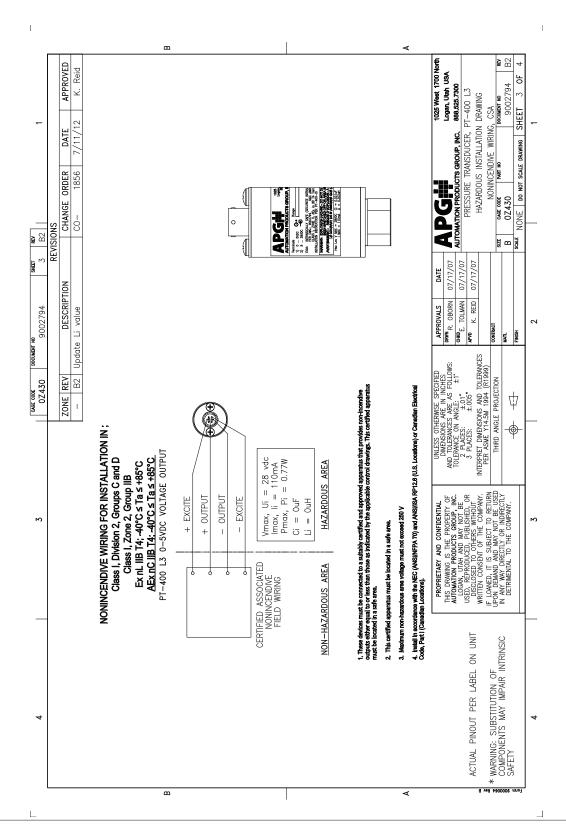
Intrinsically Safe Wiring Diagram (4-20mA Output)



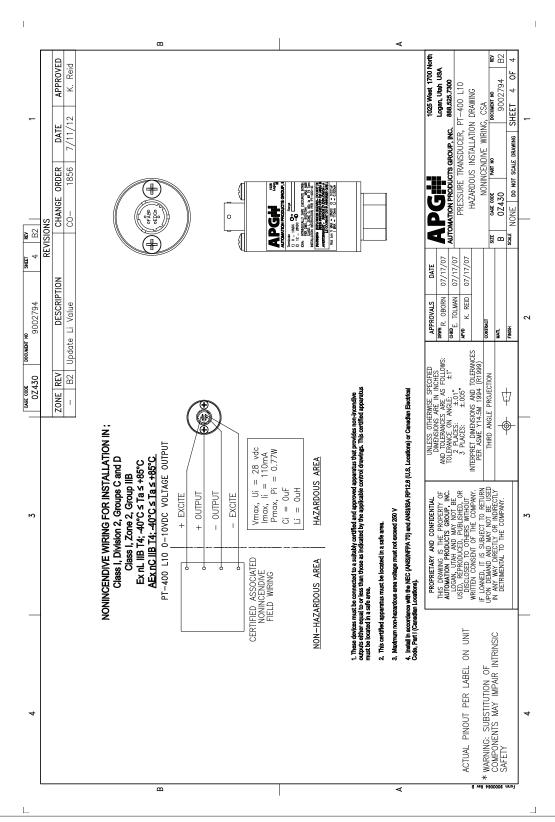
## Non-Incendive Wiring Diagram (4-20mA Output)



# Non-Incendive Wiring Diagram (0-5VDC Output)



## Non-Incendive Wiring Diagram (0-10VDC Output)



## CSA Certificate of Compliance



# **Certificate of Compliance**

Certificate: 1984045 Master Contract: 23748-

**Project:** 2587208 **Date Issued:** December 17, 2012

**Issued to:** Automation Products Group Inc

1025 West 1700 North Logan, UT 84321

USA

Attention: Karl Reid

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Eshwar Kashyap

**Issued by:** Eshwar Kashyap

**PRODUCTS** 

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non -

Incendive Systems - For Hazardous Locations

CLASS 2258 83 - PROCESS CONTROL EQUIPMENT-Intrinsically Safe and Non-

Incendive - Systems-For Hazardous Locations-Certified to U.S. Standards

Class I, Div. 2, Groups C and D

Class I, Zone 2, Group IIB

Ex nL IIB T4; Ta: -40°C ... +85°C

AEx nC IIB T4; Ta: -40°C ... +85°C

 Model PT-400-L1xxxx Pressure Transmitter. Rated 9-28VDC, 4-20mA. Maximum Ambient 85° C; Temperature Code T4; Maximum Working Pressure 10,000 PSI. Enclosure type: IP65. Installed as per Drawing 9002794. Non-Incendive with the following Entity Parameters:

Vmax, Ui = 28V

Imax, Ii = 110mA

Pmax, Pi = 0.77W

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Certificate: 1984045 Master Contract: 237484

**Project:** 2587208 **Date Issued:** December 17, 2012

 $Ci = 0.055 \mu F$ 

 $Li = 7.95 \mu H$ 

 Model PT-400-L3/L10xxxx Pressure Transmitter. Rated 9-28VDC, 4-20mA or 0-5V, 20mA or 0-10V, 20mA; Maximum Ambient 85° C; Temperature Code T4; Maximum Working Pressure 10,000 PSI. Installed as per Drawing 9002794. Non-Incendive with the following Entity Parameters:

Vmax, Ui = 28V

Imax, Ii = 110mA

Pmax, Pi = 0.77W

 $Ci = 0\mu F$ 

 $Li = 0\mu H$ 

 Model PT-500-xxxx Pressure Transmitter, Rated 10-28VDC, 4-20mA; Maximum Ambient 85° C; Temperature Code T4; Maximum Working Pressure 10,000 PSI; Non-Incendive with the following Entity Parameters:

Vmax, Ui = 28V

Imax, Ii = 110mA

Pmax, Pi = 0.77W

 $Ci = 0\mu F$ 

 $Li = 0\mu H$ 

Notes for Models PT-400, PT-500:

- 1. The "x" in the Model designations may be any alpha-numeric character, to denote minor mechanical options, not affecting safety.
- 2. These devices must be connected to a suitably certified and approved apparatus that provides non-incendive outputs either equal to or less than those as indicated by the applicable control drawings. This certified apparatus must be located in a safe area.

CLASS 2258 04 - Process Control Equipment - Intrinsically Safe, Entity - For Hazardous Locations

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Certificate: 1984045 Master Contract: 237484

**Project:** 2587208 **Date Issued:** December 17, 2012

CLASS 2258 84 - Process Control Equipment - Intrinsically Safe, Entity - For Hazardous Locations - Certified to US Standards

Class I, Div. 1, Groups C, D

Class I, Zone 0, Group IIB

Ex ia IIB T4; Ta: -40°C ... +85°C

AEx ia IIB T4; Ta: -40°C ... +85°C

Model PT-400-L1xxxx Pressure Transmitter. Rated 9-28VDC, 4-20mA. Maximum Working Pressure: 10,000 PSI. Installed as per Drawing 9002794. Ambient Range: -40°C to +85°C. Enclosure type: IP65. Intrinsically safe with the following entity parameters:

Vmax, Ui = 28V

Imax, Ii = 110mA

Pmax, Pi = 0.77W

 $Ci = 0.055 \mu F$ 

 $Li = 7.95 \mu H$ 

• Model PT-500-xxxx Pressure Transmitter; Maximum Ambient 85° C; Temperature Code T4; Maximum Working Pressure 10,000 PSI; Entity parameters as follows: Vmax, Ui = 28V

Imax, Ii = 110mA

Pmax, Pi = 0.77W

 $Ci = 0.042 \mu F$ 

 $Li = 0.320 \mu H$ 

Notes for Models PT-400, PT-500:

- 1. The "x" in the Model designations may be any alpha-numeric character, to denote minor mechanical options, not affecting safety.
- 2. These devices must be connected to a NRTL approved safety barrier (located in a safe area).

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APG:



Certificate: 1984045 Master Contract: 237484

**Project:** 2587208 **Date Issued:** December 17, 2012

#### **APPLICABLE REQUIREMENTS**

C22.2 No 0 - M1991	General Requirements - Canadian Electrical Code Part
	II.
C22.2 No 0.4 - M2004	Bonding and Grounding of Electrical Equipment
	(Protective Grounding).
C22.2 No 142 - M1987	Process Control Equipment.
C22.2 No 157 - M1992	Intrinsically Safe and Non-Incendive Equipment for
	Use in Hazardous Locations.
C22.2 No 213 - M1987	Non-Incendive Electrical Equipment for Use in Class I,
	Division 2 Hazardous Locations.
CAN/CSA-C22.2 No. 60079-0:11	Explosive Atmospheres - Part 0: Equipment - General
	requirements
CAN/CSA-C22.2 No. 60079-11:11	Explosive Atmospheres – Part 11: Equipment
	protection by intrinsic safety "i"
CAN/CSA-C22.2 No. 60079-15:12	Electrical apparatus for explosive gas atmospheres
	- Part 15: Construction, test and marking of type of
	protection "n" electrical apparatus
CAN/CSA-C22.2 No. 60529:05	Degrees of protection provided by enclosures (IP Code)
UL 508, 17th Edition	Industrial Control Equipment.
UL 913, 7Th Edition	Intrinsically Safe Apparatus and Associated Apparatus
	for use in Class I, II, III, Division 1, Hazardous
	(Classified) Locations.
ANSI/ISA-12.12.01-2007	Nonincendive Electrical Equipment for Use in Class
	I and II, Division 2 and Class III, Divisions 1 and 2
	Hazardous (Classified) Locations
ANSI/UL 60079-0:09	Electrical Apparatus for Explosive Gas Atmospheres -
	Part 0: General Requirements
ANSI/UL 60079-11:09	Electrical apparatus for Explosive Gas Atmospheres -
	Part 11: Intrinsic Safety "i"
ANSI/UL 60079-15:09	Electrical apparatus for Explosive Gas Atmospheres -
	Part 15: Type of Protection "n"
ANSI/IEC 60529:2004	Degrees of Protection Provided by Enclosures (IP
	Code)

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### **EC Declaration of Conformity**

# EC Declaration of Conformity (Ex



Manufacturer's Name: Automation Products Group Inc.

> Address: 1025 West 1700 North Logan, UT 84321

> > Tel: (435) 753-7300 Fax: (435) 753-7490

Email: sales@apgsensors.com Web: www.apgsensors.com

Declares that the product:

**Product Name:** Pressure Transmitter PT-400-L1

Conforms to:

ATEX Directive 94/9/EC

- EC Type Examination Certificate: Sira 12ATEX2294

Sira 0518

Sira Certification Service, Rake Lane, Eccleston, Chester, CH4 9JN, England

**Description of Equipment or Protective System:** 

The equipment measures a Pressure and provides a 4-20mA output signal proportional to the measured Pressure.

Series: PT-400-L1

Conforms to the following Standards

EN 60079-0:2012 EN 60079-26:2007 EN 60079-11:2012

Markings: : ATEX: Ex II 1G Ex ia IIB T4 Ga ( $Ta = -40^{\circ}C$  to  $+85^{\circ}C$ )

**Supplementary Information:** 

The product described in this Declaration of Conformity complies with the Applicable European Directives and relevant sections of the Applicable International Standards. The signature on this document authorizes the distinctive European mark to be applied to the equipment described.

**Authorized Signature:** Karl Reid, Product Line Manager



**Automation Products Group, Inc.**