



WIRING

AST4600, AST46HA

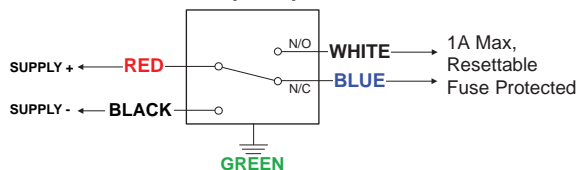
Output	Red	Black	White	Green	For U.S. installations, sensor case ground (green wire) must be bonded to ground according to Article 501 & 505 of the NEC.
Voltage	+V Supply	-V Supply	Output	Case Ground	
4-20mA	+V Supply	-V Supply	Not Used	Case Ground	

AST46PT

Output	Power Connections		Output Connections		Green	Length	For U.S. installations, sensor case ground (green wire) must be bonded to ground according to Article 501 & 505 of the NEC.
	Red	Black	White	Blue			
Voltage	+V Supply	-V Supply	Pressure	Temp	Case Ground	4.3"	
4-20mA	+Pressure	-Pressure	-Temperature	+Temp	Case Ground	4.8"	

AST46SW

1 Amp Output



Special Conditions for Safe Use

- When the equipment is installed, particular precautions must be taken to ensure, taking into account the effect of the process temperature that the operating service temperature of the overall pressure transducer assembly is between -40°C to 92°C.
- Under certain extreme circumstances, exposed plastic and unearthened metal parts of the enclosure may store an ignition-capable level of electrostatic charge. Therefore, the user/installer shall implement precautions to prevent the build up of electrostatic charge, e.g. locate the equipment where a charge-generating mechanism (such as wind-blown dust) is unlikely to be present and clean with a damp cloth.
- The integral conductors shall be suitably mechanically protected and terminated in a suitable terminal or junction facility.
- It is the user's responsibility to ensure that the earth continuity of the equipment is maintained via the mounting arrangement.
- The enclosure is manufactured from light metal. In rare cases, ignition sources due to impact and friction sparks could occur and that shall be considered during installation.
- The external pressure on potted flying leads shall not exceed 30 bar maximum.



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EXPROOF Operating Instructions, 01/11/16

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Operating Instructions

Explosion-Proof Pressure Transducers / Transmitters

For Use with Liquids and Gases

AST4600 · AST46HA · AST46PT · AST46SW

The products comply with the following Hazardous Locations:
EN 60079-0:2012, EN 60079-1:2007, EN 60079-31:2009



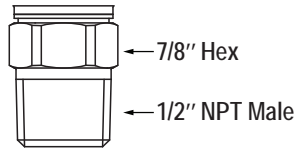
- ATEX: Class I, Zone 1, Ex d IIC T5 Gb (Ta = -40°C to 85°C)
- Ex d IIC T5 Gb, Ex tb IIIC T100°C Db
- Class I, Div. 1, Groups A, B, C, D T5
- Class II, Div. 1, Groups E, F, G; Class III*
- Ambient Temp: -40 to 85°C (-40 to 185°F)
- Process Temperature: -40 to 125°C (-40 to 257°F)
- Single Seal



*Gauge and vacuum reference units not suitable for Class II. Refer to data sheet.

PROCESS CONNECTION INSTALLATION

For threaded installations, use the 7/8" hex above the thread of the process connection to install the process. Do not use the body / housing for installation.



Maximum working pressure for the lowest pressure sensors 0.34MPa (50 psi) and maximum working pressure for the highest pressure sensors 137.9MPa (20,000 PSI)

-- SINGLE SEAL.



ELECTRICAL INSTALLATION

Raccordement électrique

WARNING: EXPLOSION HAZARD

Attention: Risque d'explosion

Do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous. This equipment must be powered by a Non-hazardous live source in accordance with CAN/CSA-C22.2 No. 61010-1-04 eg. limited energy source, or a Class 2 Source.

Déconnecter l'appareil uniquement après avoir coupé l'alimentation électrique ou avoir vérifié qu'il n'est pas installé en zone dangereuse.

Cet équipement doit être alimenté par une source directe non dangereuse conformément aux normes CAN/CSA-C22.2 No. 61010-1-04 par exemple en source d'énergie limitée ou en source Classe2.

FIELD SERVICE

AST pressure transmitters have no field serviceable parts. For technical issues or questions, please contact the factory: info@astsensors.com

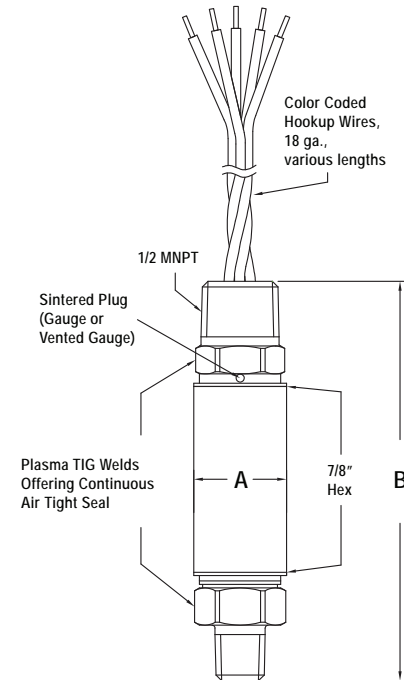
WARNING: The enclosure is manufactured from light metal. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered during installation, particularly if the equipment is installed in a zone 0 location.

WARNING: Potential Electrostatic Discharge Hazard - clean the surface with a damp cloth

AVERTISSEMENT: Le boîtier est fabriqué en métal léger. Dans de rares cas, des sources d'inflammation due à des étincelles d'impact et de friction pourraient survenir. Ceci doit être considéré lors de l'installation, en particulier si le matériel est installé dans un emplacement 0 de la zone.

AVERTISSEMENT: Décharge potentiel électrostatique Hazard - nettoyer la surface avec un chiffon humide

OUTLINE DRAWINGS, Explosion-Proof with METAL CONDUIT and CABLE



Model Series	Body Diameter	Overall Length
	"A"	"B"
AST4600	0.875"	3.64"
AST46HA	1"	4.3"
AST46PT (4-20mA)	1"	4.8"
AST46PT (Voltage)	1"	4.3"
AST46SW	1"	4.8"