

Cathodic Protection

Test Point

THE MANUAL IS AVAILABLE AT:
sensus.com



For safety and correct product usage, read the manual before this product is used.

This guide describes how to install the Sensus SentryPoint™ Test Point module within a gas pipeline riser.

Assure all relevant NACE standards are followed for Cathodic Protection system installations, including, but not limited to, SP0129-2013 and SP0572-2007.

Tools needed

7/16" wrench

Installation

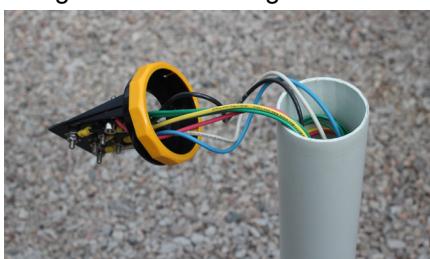
1. Locate the CP test station.



2. Remove the test station cap from the top of the riser.



3. Carefully lift the test station up and away from the riser taking care not to damage the connected wires.



4. Insert the CP Test Point into the riser.

5. Connect the CP Test Point wiring harness to the test station as follows:

| Test Point Inputs | Wire Color | Cathodic System Connection |
|-------------------|------------|--------------------------------------|
| 1 | Black | Pipe |
| 2 | Green | CP Coupon |
| 3 | Blue | Casing or Native Coupon |
| 4 | Yellow | Always connect to Reference 1/2 cell |

6. Carefully route the wires around the end of the module to lay flat against the flat side of the module case. Dress the leads so that they do not come in contact with an adjacent terminal or become crimped between existing wires and interior surfaces.

7. Terminate any unused leads to an open/unused screw.



8. Before inserting the CP Test Point, carefully guide and push back all wires back down into the riser.



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9. Insert the CP Test Point into the riser.



3. Power on the CommandLink®.
4. Launch FieldLogic Tools using an applicable cellular phone, Handheld Device, or a laptop running FieldLogic Tools.
5. Enter the FlexNet ID of the SmartPoint Module, select Start Connection, and Activate and Configure the CP Test Point.

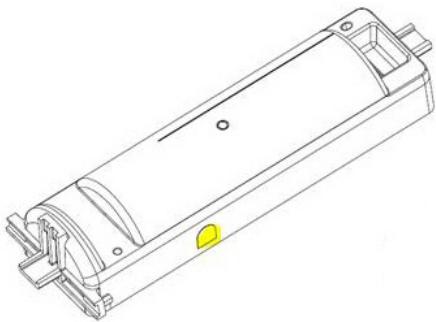
10. Seat the test station on the riser, carefully guiding the wires through the available opening while being careful not to bend or crimp them.

11. Replace the cap.

Configure the CP Test Point for service

The following procedure describes the basic steps for configuring the CP Test Point with a FlexNet® SmartPoint® module for service using Sensus FieldLogic™ Tools. For more specifics on activating the SmartPoint Module using FieldLogic Tools, refer to the FieldLogic User Guide and FieldLogic Hub Quick Guide.

The SmartPoint module is embedded in the CP Test Point. There is a round indication molded onto the Test Point housing that identifies the best spot for placing the CommandLink. This is the spot you will aim to place the CommandLink when it is inside the Test Point.



1. If you have not previously done so, set up a Device Configuration for the CP Test Point in FieldLogic Hub.
2. Line the CommandLink up to the proper position on the riser as noted.





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WARNING!

The antenna used for this transmitter must not be co-located in conjunction with any other antenna or transmitter.



ATTENTION!

For Class B - Unintentional Radiators:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.



ATTENTION!

Any modifications made to this device that are not approved by Sensus may void the authority granted to the user by the FCC to operate equipment.



ATTENTION!

ICES-003 Class B Notice—Avis NMB-003, Class B

This Class B digital apparatus complies with Canadian ICES-003.



WARNING!

DO NOT INCINERATE or subject battery cells to temperatures in excess of 212°F. Such treatment can cause cell rupture.



ATTENTION!

Lithium Thionyl Chloride battery type D 3.6V, MAX pulse current 1.2A.

Le type D 3.6V de batterie de Chlorure de Thionyl de Lithium, le courant de pouls de MAX 1.2A.



ATTENTION!

WARNING – EXPLOSION HAZARD. DO NOT CONNECT OR DISCONNECT WHEN ENERGIZED

AVERTISSEMENT – RISQUE D'EXPLOSION. NE PAS BRANCHER NI DÉBRANCHER SOUS TENSION.



ATTENTION!

Refer to Control Drawing 96004826.



ATTENTION!

This is a Class 1, Division 2, Group D, T6 product.



ATTENTION!

This product is rated IP66 in accordance with IEC 60529.



WARNING!

Substitution of components may impair suitability for Class 1, Division 2. Risque D'Explosion—La Substitution de composants peut rendre ce materiel inaccetable pour les emplacements de Class 1, Division 2.



ATTENTION!

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- *Reorient or relocate the receiving antenna*
- *Increase the separation between the equipment and receiver*
- *Connect the equipment into an outlet on a circuit different from that to which the receiver is connected*
- *Consult the dealer or an experienced radio/TV technician for help*



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RADIATION HAZARD!

In order to satisfy the RF exposure limit for transmitting devices, a separation distance of 20cm (7.9 inches) or more should be maintained while operating the Sensus CPTP100A. To ensure compliance, operation at closer than this distance is not recommended. This minimum safe distance is required between personnel and this antenna of this device.

Afin de satisfaire à la limite d'exposition RF pour les appareils de transmission, une distance de séparation de 20cm (7,9 pouces) ou plus doit être maintenu pendant le fonctionnement du Sensus CPTP100A. Pour assurer la conformité, un fonctionnement à distance inférieure à celle est pas recommandée. Cette distance minimale de sécurité est nécessaire entre le personnel et l'antenne de cet appareil.



ATTENTION!

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.



ATTENTION!

This radio transmitter the Sensus CPTP100A has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (Sensus CPTP100A) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

- PCB Printed Dipole with 0dBi



ATTENTION!

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.