

Tek-Temp 2300A

EXPLOSION PROOF TWO WIRE TEMPERATURE
TRANSMITTER



Quick Start Guide

1. Before You Begin

This guide provides basic information to assist you in quickly getting started. Go to our website to download the full User Guide for detailed installation and other information.



Ensure installation of the Transmitter meets applicable state and national electrical code requirements.



The installation of the Transmitter should only be performed by a qualified installer or a factory representative.

2. Unpack

Tek-Temp 2300A Two-Wire Temperature Transmitter

NOTE: When moving the transmitter to the installation site, keep it in its original packaging. Then, unpack the transmitter there to avoid damage on the way.

NOTE: Before installation check the model, specifications, and installation location for the transmitter. Install using proper engineering practice.

3. Hardware

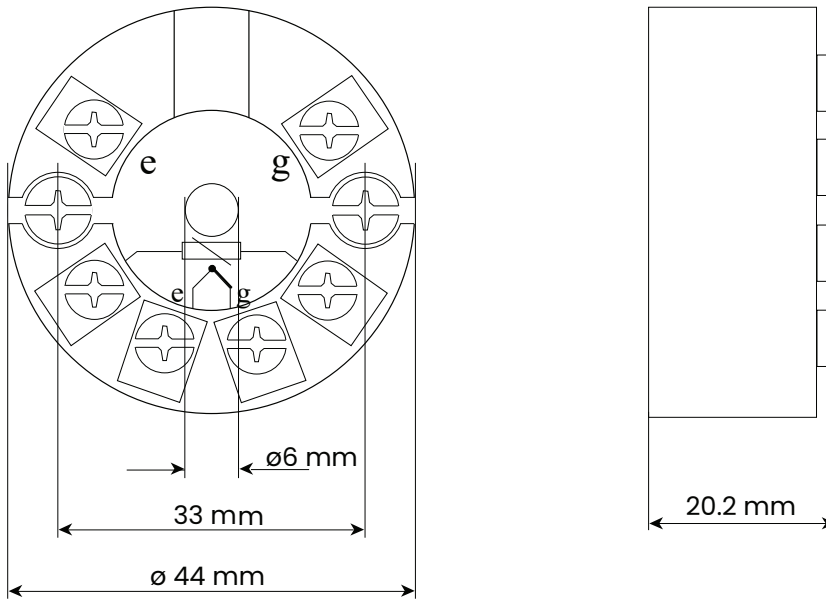


While preserving loop integrity, the test pins enable direct loop current measurement. When use the test pins, the transmitter must have power connected.

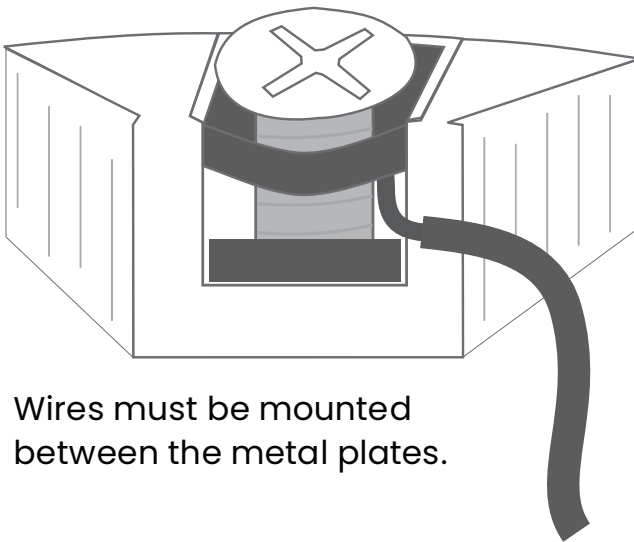
4. Mounting

- For DIN form B sensor head mounting.
- In non-hazardous areas the 2300A can be mounted on a DIN rail with a DIN rail clip.

Mechanical Specifications



Mounting of sensor wires

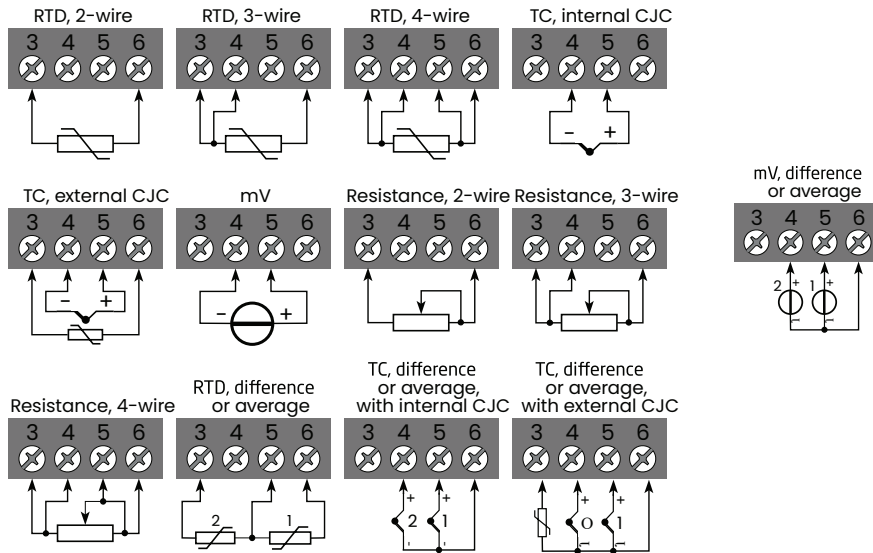


Wires must be mounted
between the metal plates.

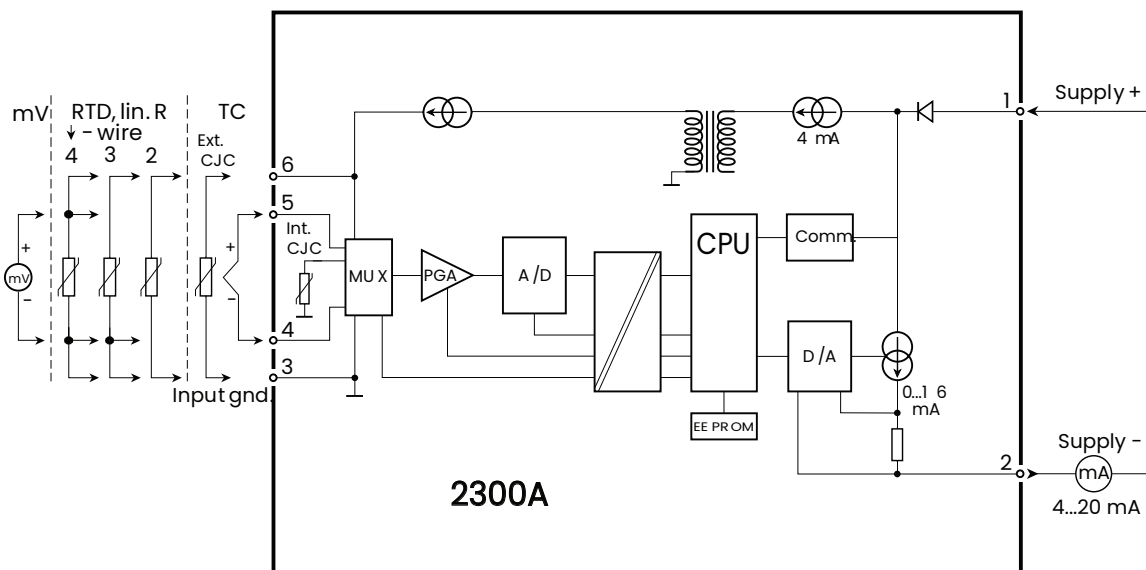
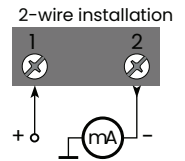
Quick Start Guide

5. Power Supply

Input:



Output:



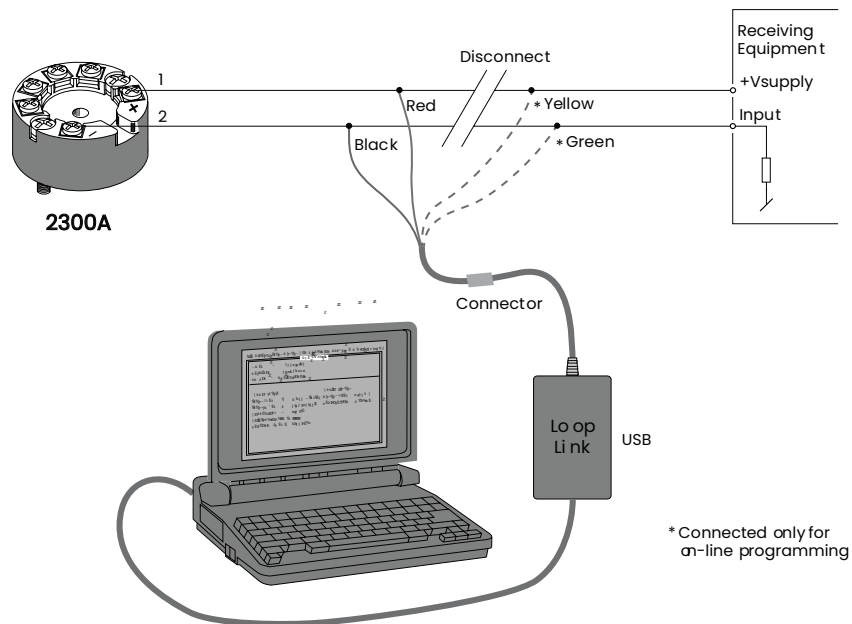
6. Calibration

It can be configured in the following 3 ways:

1. With the communications interface Loop Link and PC configuration software.
2. With a HART modem and HART PC configuration software.
3. With a HART communicator with A/S' DDL driver.

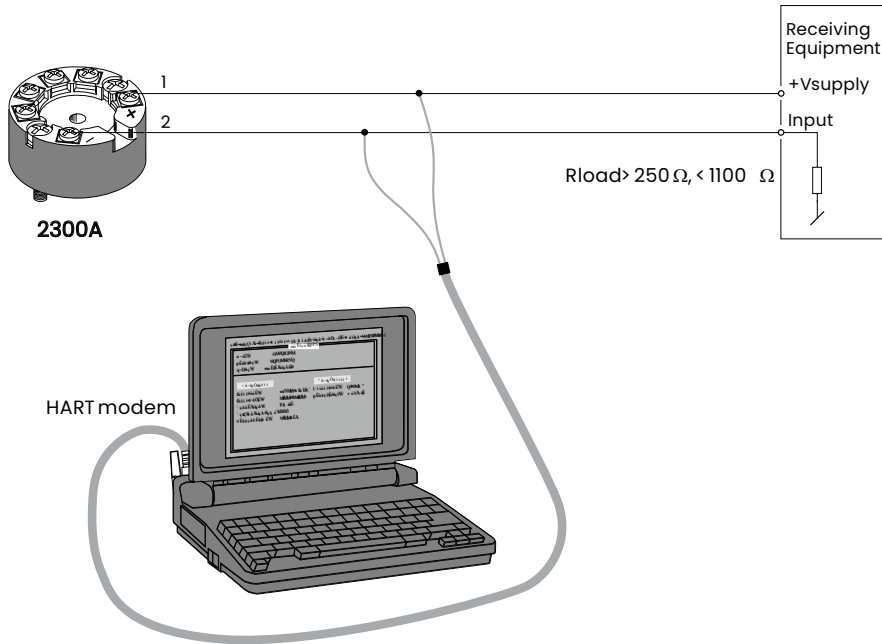
Loop Link

For programming, please refer to the drawing below and the help functions in HART. Loop Link is not approved for communication with devices installed in hazardous (Ex) area.



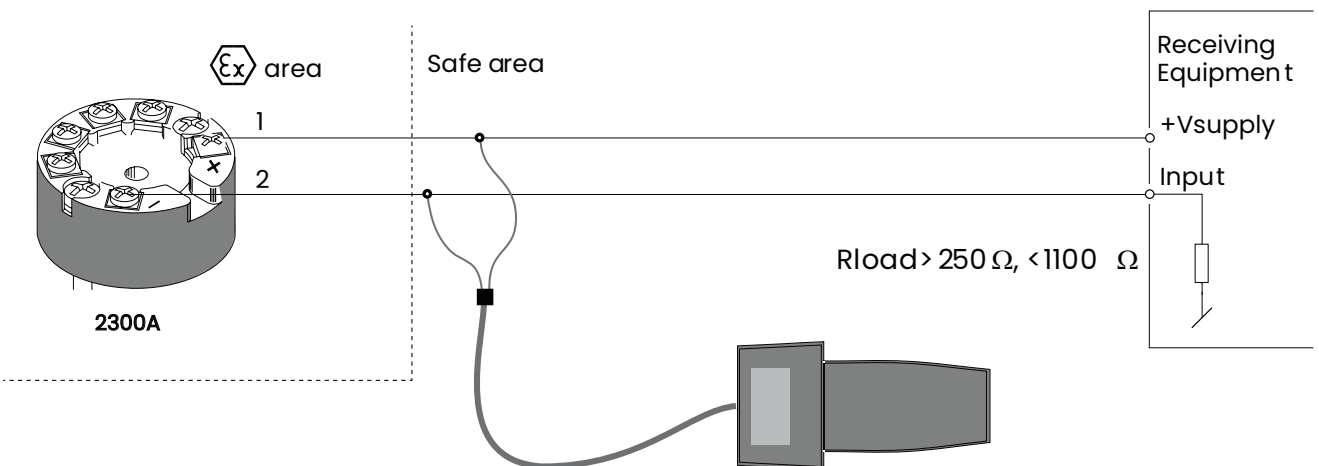
HART Modem

For programming please refer to the drawing below and the help functions in HART.

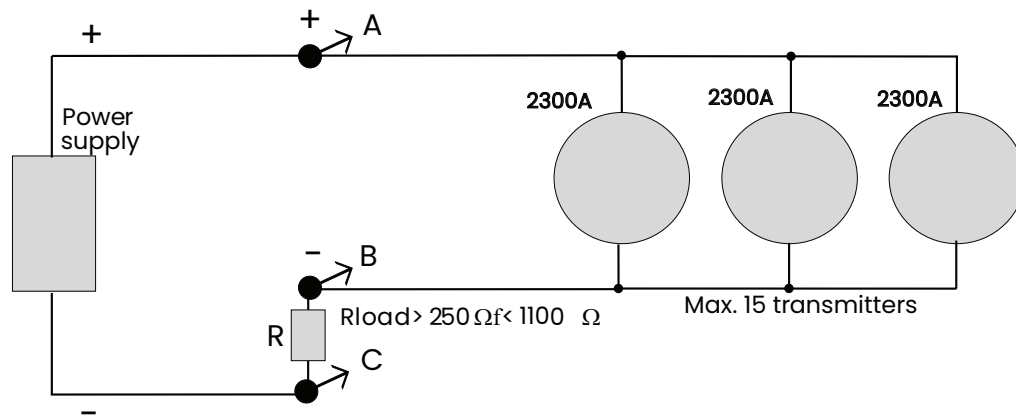


HART Communicator

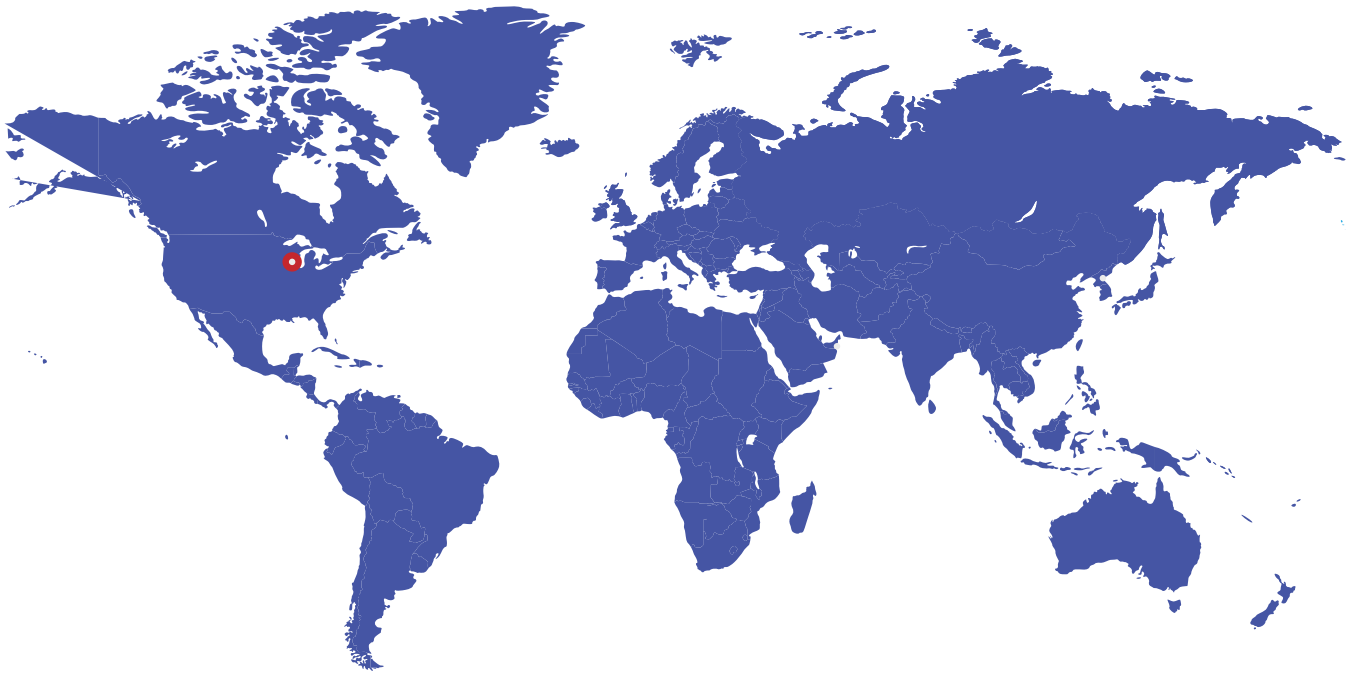
For programming please refer to the drawing below. To get access to product specific commands, the HART communicator must be loaded with the DDL driver. This can be ordered at the HART Communication Foundation.



Connection of Transmitters in Multidrop Mode



- The HART communicator or a PC modem can be connected across AB or BC.
- The outputs of max. 15 transmitters can be connected in parallel for a digital HART communication on 2-wires.
- Before it is connected, each transmitter must be configured with a unique number from 1 to 15. If 2 transmitters are configured with the same number, both will be excluded. The transmitters must be programmed for multidrop mode (with a fixed output signal of 4 mA). Maximum current in the loop is therefore 60 mA.
- The communication is either by means of a HART communicator or a HART modem.
- The HART PC configuration software can configure the individual transmitter for multidrop mode and provide it with a unique polling address.



796 Tek Drive
Crystal Lake, IL 60014
USA

Tel: +1 847 857 6076

Fax: +1 847 655 6147

Email: tektrol@tek-trol.com

www.tek-trol.com