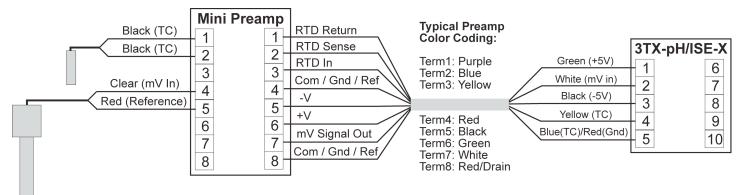




Connection Diagram of ASTI Sensors WITHOUT PREAMPLFIERS (Input) to External "Mini" Conventional Preamplfier (Output) to ASTI 3TX-pH-X and 3TX-ISE-X Preamp Style Transmitters

Input from ASTI pH / ORP / ISE Sensors Without Preamp (Inside J-Box Connections)

Output from ASTI "Mini" Conventional External Preamplfier (Inside Transmitter Assembly Connections)



Connection from ASTI "Mini" External Conventional Preamplifier Output (Schematic on Left) to Input Terminal Block on ASTI 3TX Transmitter (Schematic on Right)

Note 1:

The temperature compensation element input shown on the far left as the input side to the "Mini" external preamp terminal 1 & 2 can be 100 or 1000 Ohm Platinum (selectable in 3TX-pH-X or 3TX-ISE-X transmitter).

Note 2:

When using the "Mini" external conventional preamplifier with the 3TX-pH-X and 3TX-ISE-X it is not necessary to interface with the output side terminal 1 (RTD Return). This is not required because the 3TX transmitters do not support 3-wire TC inputs. As such the blue terminal 2 and yellow terminal 3 output connections provide the 2-wire Pt100 or Pt1000 TC inputs.

Note 3:

When using the "Mini" external conventional preamplifier with the 3TX-pH-X and 3TX-ISE-X it is not necessary to interface with the output side terminal 8 (duplicate common/ground/reference). This is because the 3TX transmitters do not require two common input leads (as some transmitter do) but rather just a single common/ground/reference connection from terminal 4 (red color coded lead).

Note 4:

This "Mini" external conventional preamplifier can interface quite a number of additional transmitters besides the 3TX-pH-X and 3TX-ISE-X units. Please inquire to ASTI factory for wiring schematics to other transmitter types.

Note 5:

It is possible to power this "Mini" external preamplifier from a two-sided battery pack power source if it is to be mated with a pH/ORP transmitter that does not support preamplifiers. Inquire to ASTI factory this type of alternate wiring schematic.