

Wiring Schematic for Dual All-In-One “PtD” pH/ORP Sensor Connected to Two (2) each ASTI 3TX-pH Transmitters

3TX-pH Transmitter # 1 for pH Measurement (Set P03=pH)

MUST BE 3TX-pH-A or 3TX-pH-D STYLE FOR pH SENSORS WITHOUT PREAMPLIFIERS

ASTI Cable Color Coding	Instrument Terminal Value	3TX-pH Terminal Number
Brown	Reference for pH	1
Clear	Signal for pH	2
No Connection	None	3
Black	Pt100 or Pt1000	4
Black	Pt100 or Pt1000	5

Note 1:

Pt100/Pt1000 (P04) only connected to pH transmitter # 1 for temperature compensation of pH & measurement of temperature itself. No temperature input is required for transmitter # 2 since temperature compensation is not performed for ORP. Output temperature with 3TX-pH-D via RS-485 MODBUS RTU digital output or else add a 3TX-TEM analog temperature output module to 3TX-pH-A.

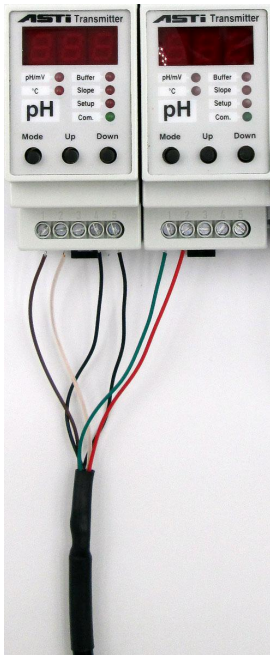
3TX-pH Transmitter # 2 for ORP Measurement (Set P03=mV)

MUST BE 3TX-pH-A or 3TX-pH-D STYLE FOR ORP SENSORS WITHOUT PREAMPLIFIERS

ASTI Cable Color Coding	Instrument Terminal Value	3TX-pH Terminal Number
Green	Reference for ORP	1
Red	Signal for ORP	2
No Connection	None	3
No Connection	None	4
No Connection	None	5

Note 2:

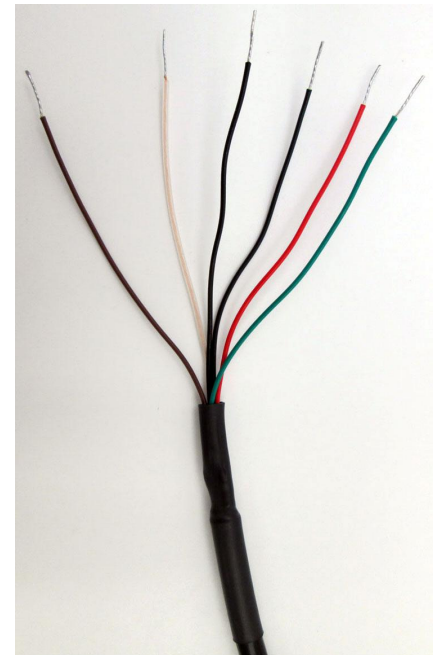
For the second 3TX-pH transmitter used to connect the ORP portion of the Dual All-In-One “PtD” style sensor, please ensure that P05 is selected as “Set” to be in manual temperature mode to ensure normal operation.



Overall wiring wide view



Input terminals close-up of PtD sensor to 2 ea 3TX-pH



End of cable tinned leads for PtD sensors

Last Modified June 15, 2016