



***The wiring for each sensor is subject to change. For the most up to date information, always refer to the Pyxis manual for the sensor in question.

Pyxis Sensors Power Draw and Wiring Directory*

Product	Analyte / Parameter Measured	Max Power Draw per Sensor	Max Power Draw when used with MA-WB / MA-CR	Cable used with Sensor	Wiring Diagram for standalone Sensor**	Wiring Diagram for Sensor with MA-WB / MA-CR **
ST-500 [All Variants]	PTSA	1 W	1.2 W	7-pin (MA-1100)	1A	1A
ST-525SS (sn < 220011)	Fluorescein	1 W	1.2 W	7-pin (MA-1100)	1A	1A
ST-525SS (sn >= 220011)	Fluorescein	1 W	1.2 W	7-pin (MA-1100)	2A	2A
ST-525 (sn < 210086)	Fluorescein	1 W	1.2 W	7-pin (MA-1100)	1A	1A
ST-525 (sn >= 210086)	Fluorescein	1 W	1.2 W	7-pin (MA-1100)	2A	2A
ST-525-HR	Fluorescein	1 W	1.2 W	7-pin (MA-1100)	2A	2A
ST-525SS-HR	Fluorescein	1 W	1.2 W	7-pin (MA-1100)	2A	2A
ST-540 [All Variants]	NDSA	1 W	1.2 W	7-pin (MA-1100)	1A	1A
ST-565	HST/HRA	1 W	1.2 W	7-pin (MA-1100)	2A	2A
ST-565T	TTA	1 W	1.2 W	7-pin (MA-1100)	2A	2A
ST-590 [All Variants]	Fluorescent Polymer	1 W	1.2 W	7-pin (MA-1100)	1A	1A
ST-588 [All Variants]	Polymer / PTSA	1.8 W	2 W	8-pin (MA-1.5CR)	3B	3B
50661-NT	PTSA	1 W	1.2 W	7-pin (MA-1100)	1A	1A
50692-NT	Polymer / PTSA	1.8 W	2 W	8-pin (MA-1.5CR)	3B	3B
50690-NT	Fluorescent Polymer	1 W	1.2 W	7-pin (MA-1100)	1A	1A
ST-730	Turbidity	1 W	1.2 W	7-pin (MA-1100)	1A	1A
ST-730B	Turbidity	1 W	1.2 W	7-pin (MA-1100)	1A	1A
ST-730SS	Turbidity	1 W	1.2 W	7-pin (MA-1100)	1A	1A
ST-731	Turbidity	1 W	1.2 W	7-pin (MA-1100)	1A	1A
ST-735	Turbidity	1 W	1.2 W	7-pin (MA-1100)	1A	1A
LT-736	Ultra-Low Turbidity	1.5 W	1.7 W	8-pin (MA-1.5CR)	4A	4B
LT-736B	Ultra-Low Turbidity	1.5 W	1.7 W	8-pin (MA-1.5CR)	4A	4B
LT-737	Ultra-Low Turbidity	1.5 W	1.7 W	8-pin (MA-1.5CR)	4A	4B
LT-737B	Ultra-Low Turbidity	1.5 W	1.7 W	8-pin (MA-1.5CR)	4A	4B
LT-739	Ultra-Low Turbidity	1.5 W	1.7 W	8-pin (MA-1.5CR)	4A	4B
LT-739B	Ultra-Low Turbidity	1.5 W	1.7 W	8-pin (MA-1.5CR)	4A	4B

*Always refer to the Walchem Controller manual for the max power available from the analog inputs. Pyxis sensors exceeding these power ratings need to be powered externally. Consider using the 24 VDC Auxiliary Power Board (available on the Intuition-9) or an external DC power supply if the max power draw exceeds 1.5 Watts.

**For the WebmasterONE and Webmaster Industrial controllers, refer to the “A” version of the wiring diagram (7.2 W power is shared across all analog input channels).



***The wiring for each sensor is subject to change. For the most up to date information, always refer to the Pyxis manual for the sensor in question

Pyxis Sensors Power Draw and Wiring Directory (continued)*

Product	Analyte / Parameter Measured	Max Power Draw per Sensor	Max Power Draw when used with MA-WB / MA-CR	Cable used with Sensor	Wiring Diagram for standalone Sensor**	Wiring Diagram for Sensor with MA-WB / MA-CR **
LT-632	Turbidity	6 W	6.2 W	8-pin (MA-1.5CR)	5B	5B
LT-635	Suspended Solids	6 W	6.2 W	8-pin (MA-1.5CR)	5B	5B
53201-NT	Turbidity	1 W	1.2 W	7-pin (MA-1100)	1A	1A
53202-NT	Turbidity	1 W	1.2 W	7-pin (MA-1100)	1A	1A
50505-NT	Turbidity	1 W	1.2 W	7-pin (MA-1100)	1A	1A
ST-772 [All Variants] (sn < 210108)	Dissolved Oxygen	1.5 W	1.7 W	8-pin (MA-1.5CR)	4A	4B
ST-772 [All Variants] (sn >= 210108)	Dissolved Oxygen	1.5 W	1.7 W	8-pin (MA-1.5CR)	3A	3B
ST-773	Dissolved Oxygen	1 W	1.2 W	7-pin (MA-1100)	1A	1A
ST-774	Ultra-Low Dissolved O ₂	1.5 W	1.7 W	8-pin (MA-1.5CR)	4A	4B
ST-600	Sodium Hypochlorite + Temp	2 W	2.2 W	7-pin (MA-1100)	6B	6B
ST-604	Sodium Hypochlorite + Temp	2 W	2.2 W	7-pin (MA-1100)	6B	6B
ST-601	Chlorine Dioxide + Temp	2 W	2.2 W	7-pin (MA-1100)	6B	6B
53607-NFR	Free Chlorine + pH	2 W	2.2 W	8-pin (MA-1.5CR)	3B	3B
ST-765SS-FCL	Free Chlorine + pH	2 W	2.2 W	8-pin (MA-1.5CR)	3B	3B
ST-765SS-O3	Ozone + pH	2 W	2.2 W	8-pin (MA-1.5CR)	3B	3B
ST-765SS-SO3	Sulfite + pH	2 W	2.2 W	8-pin (MA-1.5CR)	3B	3B
53608-NFR	Chlorine Dioxide + pH	2 W	2.2 W	8-pin (MA-1.5CR)	3B	3B
ST-765SS-CLO	Chlorine Dioxide + pH	2 W	2.2 W	8-pin (MA-1.5CR)	3B	3B
CR-300 [All Variants]	Corrosion	2 W	2.2 W	8-pin (MA-1.5CR)	3B	3B
CR-301 [All Variants]	High Temperature Corrosion	2 W	2.2 W	8-pin (MA-1.5CR)	3B	3B
HM-500	Oil in Water	1.8 W	2 W	7-pin (MA-1100)	1B	1B
HM-510	Oil in Water	1.8 W	2 W	7-pin (MA-1100)	1B	1B
HM-520	Oil in Water	1.8 W	2 W	7-pin (MA-1100)	1B	1B
RT-100	Refractometer + Temp	1.5 W	1.7 W	8-pin (MA-1.5CR)	3A	3B
ST-750 (sn < 210011)	Color / Chromaticity	1.8 W	2 W	7-pin (MA-1100)	7B	7B
ST-750 (sn >= 210011)	Color / Chromaticity	1.8 W	2 W	7-pin (MA-1100)	2B	2B

*Always refer to the Walchem Controller manual for the max power available from the analog inputs. Pyxis sensors exceeding these power ratings need to be powered externally. Consider using the 24 VDC Auxiliary Power Board (available on the Intuition-9) or an external DC power supply if the max power draw exceeds 1.5 Watts.

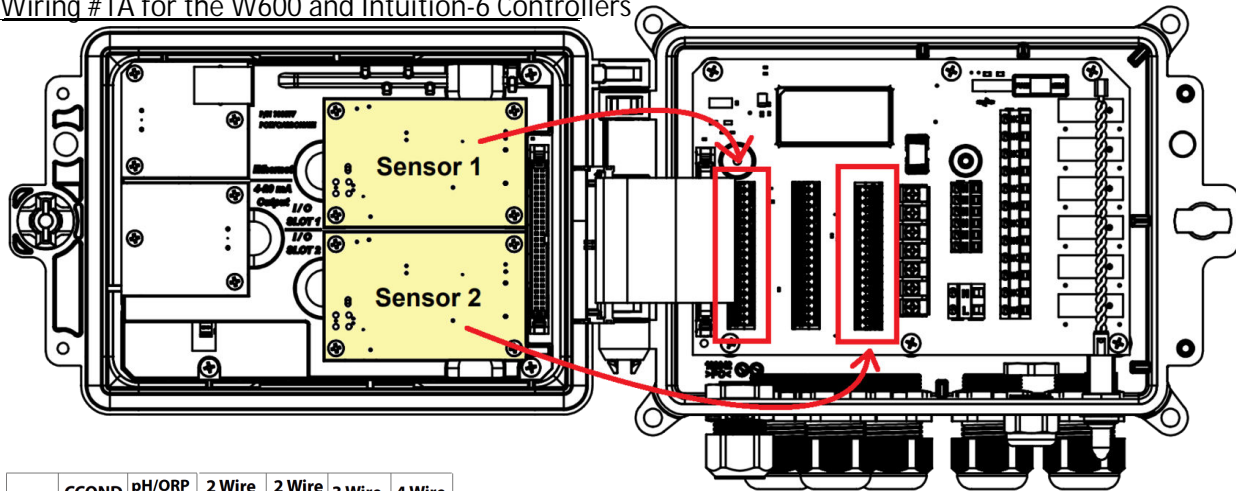
**For the WebmasterONE and Webmaster Industrial controllers, refer to the "A" version of the wiring diagram (7.2 W power is shared across all analog input channels).



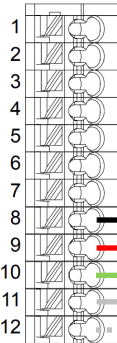
Wiring Diagram #1A, Powered from Controller Analog Input

Wire Color	Designation	Terminal Wiring in Controller
Red	24V +	+24V
Black	24V Power ground	24V (-) / GND
White	4-20mA +	XMTR+ / Input -
Green*	4-20mA - (*internally connected to Black)	XMTR- (see drawing)
Blue	RS-485 A	None, leave disconnected
Yellow	RS-485 B	None, leave disconnected
Clear	Shield	Shield / Ground Stud

Wiring #1A for the W600 and Intuition-6 Controllers



	CCOND	pH/ORP DIS	2 Wire Loop	2 Wire Pwr'd	3 Wire	4 Wire
1	TEMP-	TEMP-				
2	TEMP+	TEMP+				
3	SHIELD	IN-				
4	RCV	IN+				
5		-5V				
6	XMT					
7		+5V				
8					COM(-) 24V(-)	24V(-)
9			+24V		+24V	+24V
10				XMTR-		XMTR-
11				XMTR-	XMTR+	XMTR+
12						

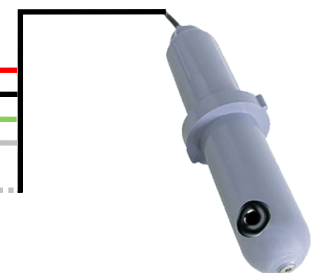
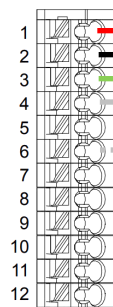


COMBINATION SENSOR/ANALOG CARD LABEL

TB Pin#	Type of Transmitter				AI#
	2 Wire Loop	2 Wire Powered	3 Wire	4 Wire	
1	+24V		+24V	+24V	1
2				24V(-)	
3		XMTR-		XMTR-	
4	XMTR-	XMTR+	XMTR+	XMTR+	
5				COM(-)	
6	SHIELD	SHIELD	SHIELD	SHIELD	
7	+24V		+24V	+24V	2
8				24V(-)	
9		XMTR-		XMTR-	
10	XMTR-	XMTR+	XMTR+	XMTR+	
11				COM(-)	
12	SHIELD	SHIELD	SHIELD	SHIELD	

DUAL ANALOG INPUT CARD LABEL

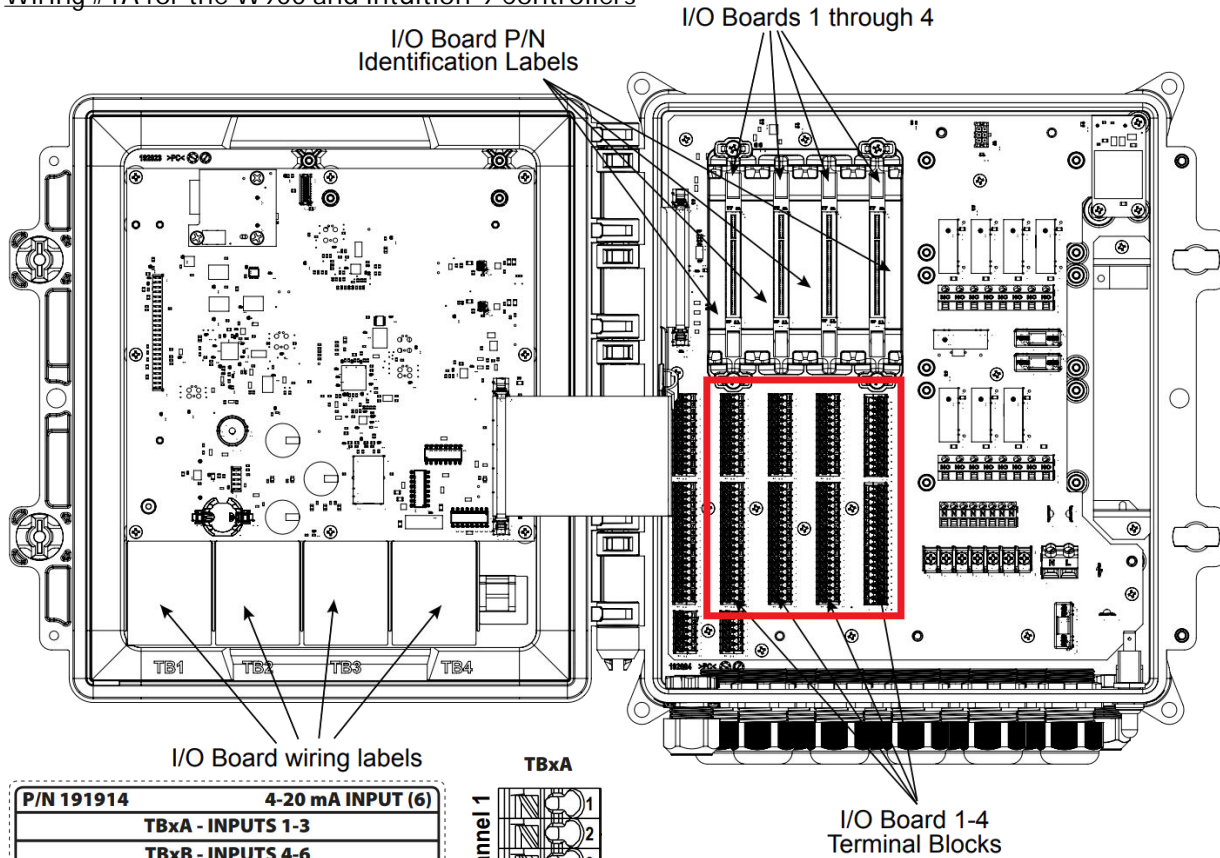
TB1 (for Sensor 1) or
TB2 (for optional Sensor 2)



TB1 (for Sensor 1) or
TB2 (for optional Sensor 2)

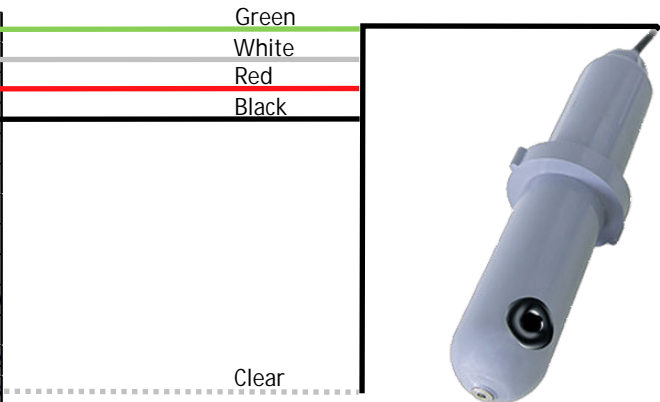
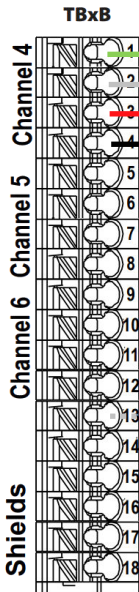
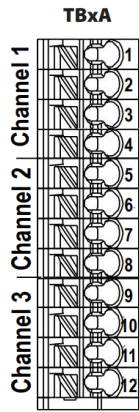


Wiring #1A for the W900 and Intuition-9 Controllers



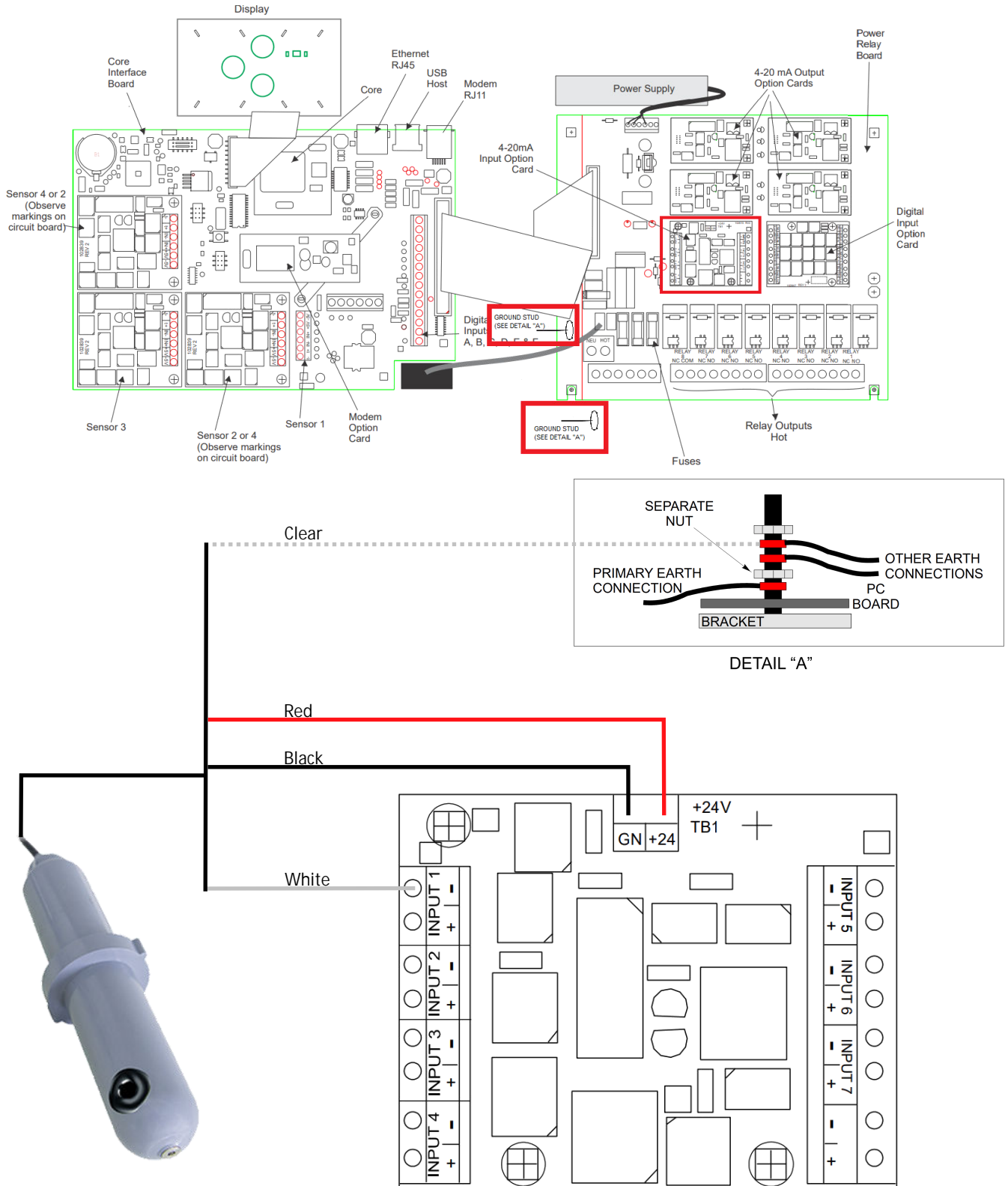
P/N 191914		4-20 mA INPUT (6)			
		TBxA - INPUTS 1-3		TBxB - INPUTS 4-6	
TB	Ch	2 Wire Loop	2 Wire Pwr	3 Wire	4 Wire
1	1,4		XMTR-		XMTR-
2		XMTR-	XMTR+	XMTR+	XMTR+
3		+24V		+24V	+24V
4				COM(-)	24V(-)
5	2,5		XMTR-		XMTR-
6		XMTR-	XMTR+	XMTR+	XMTR+
7		+24V		+24V	+24V
8				COM(-)	24V(-)
9	3,6		XMTR-		XMTR-
10		XMTR-	XMTR+	XMTR+	XMTR+
11		+24V		+24V	+24V
12				COM(-)	24V(-)
13-18		⏏	⏏	⏏	⏏

* Refer to the I/O board wiring label for the correct wiring and channel locations. Channel locations differ across the 191912, 191913, 191914, and 191918 input cards.





Wiring #1A for the WebMasterONE and Webmaster Industrial Controllers

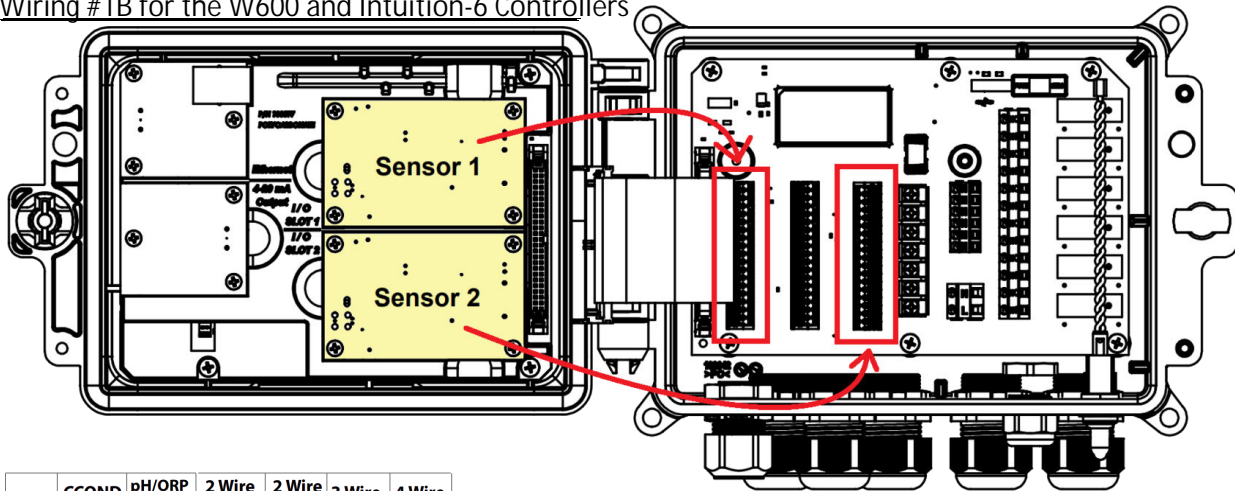




Wiring Diagram #1B, Powered Externally

Wire Color	Designation	Terminal Wiring in Controller
Red	24V +	+24V on External Power Supply
Black	24V Power ground	-24V on External Power Supply
White	4-20mA +	XMTR+ / Input -
Green*	4-20mA - (*internally connected to Black)	XMTR- (see drawing)
Blue	RS-485 A	None, leave disconnected
Yellow	RS-485 B	None, leave disconnected
Clear	Shield	Shield / Ground Stud

Wiring #1B for the W600 and Intuition-6 Controllers

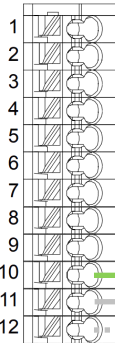


	CCOND	pH/ORP DIS	2 Wire Loop	2 Wire Pwr'd	3 Wire	4 Wire
1	TEMP-	TEMP-				
2	TEMP+	TEMP+				
3	SHIELD	IN-				
4	RCV	IN+				
5		-5V				
6	XMT					
7		+5V				
8					COM(-) 24V(-)	
9			+24V		+24V	+24V
10				XMTR-		XMTR-
11				XMTR-	XMTR+	XMTR+
12			SHIELD or use DI SHIELD (TB3 7-12)			

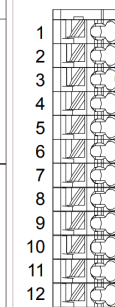
COMBINATION SENSOR/ANALOG CARD LABEL

TB Pin#	Type of Transmitter				AI#
	2 Wire Loop	2 Wire Powered	3 Wire	4 Wire	
1	+24V		+24V	+24V	1
2				24V(-)	
3		XMTR-		XMTR-	
4	XMTR-	XMTR+	XMTR+	XMTR+	
5				COM(-)	
6	SHIELD	SHIELD	SHIELD	SHIELD	2
7	+24V		+24V	+24V	
8				24V(-)	
9		XMTR-		XMTR-	
10	XMTR-	XMTR+	XMTR+	XMTR+	
11				COM(-)	
12	SHIELD	SHIELD	SHIELD	SHIELD	

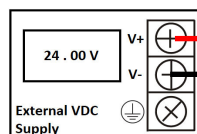
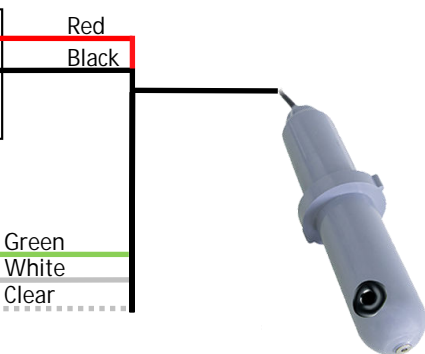
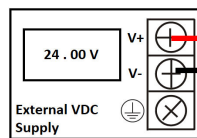
DUAL ANALOG INPUT CARD LABEL



TB1 (for Sensor 1) or TB2 (for optional Sensor 2)

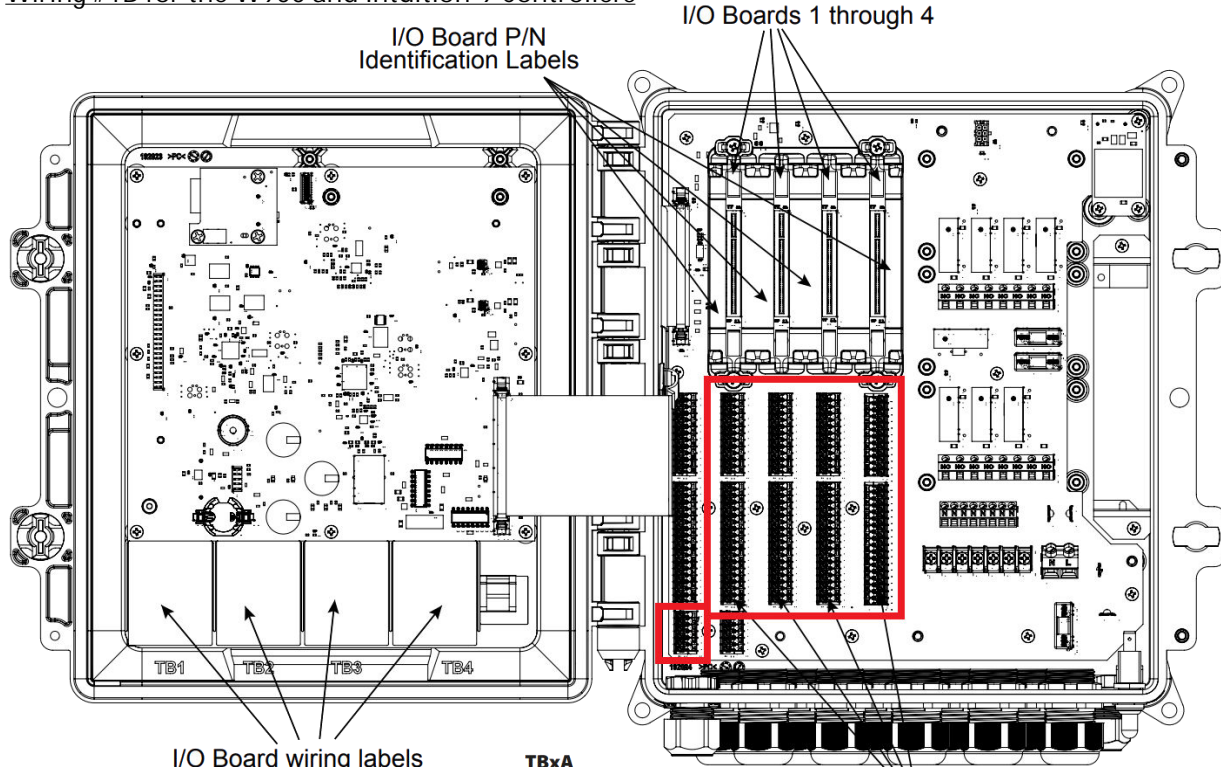


TB1 (for Sensor 1) or TB2 (for optional Sensor 2)





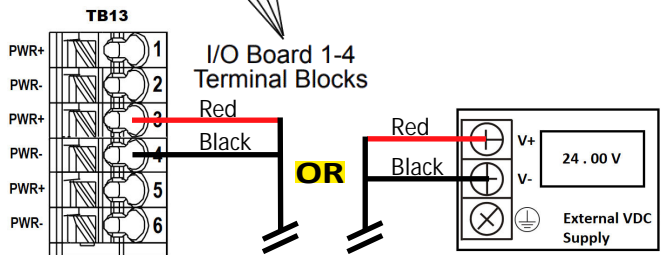
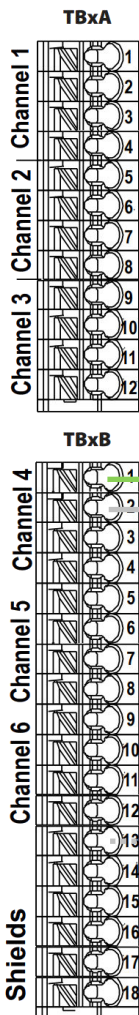
Wiring #1B for the W900 and Intuition-9 Controllers



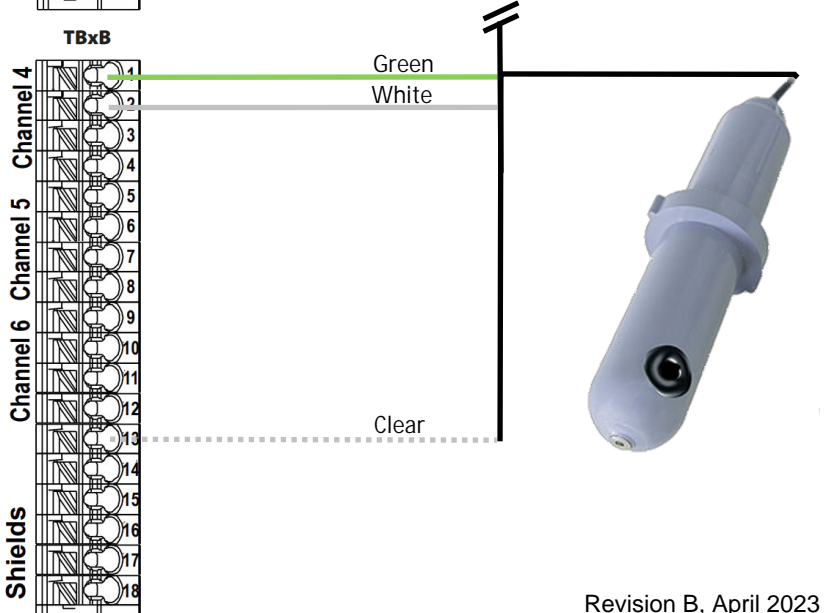
I/O Board wiring labels

P/N 191914		4-20 mA INPUT (6)			
		TBxA - INPUTS 1-3		TBxB - INPUTS 4-6	
TB	Ch	2 Wire Loop	2 Wire Pwr	3 Wire	4 Wire
1	1,4		XMTR-		XMTR-
2		XMTR-	XMTR+	XMTR+	XMTR+
3		+24V		+24V	+24V
4				COM(-)	24V(-)
5	2,5		XMTR-		XMTR-
6		XMTR-	XMTR+	XMTR+	XMTR+
7		+24V		+24V	+24V
8				COM(-)	24V(-)
9	3,6		XMTR-		XMTR-
10		XMTR-	XMTR+	XMTR+	XMTR+
11		+24V		+24V	+24V
12				COM(-)	24V(-)
13-18					

* Refer to the I/O board wiring label for the correct wiring and channel locations. Channel locations differ across the 191912, 191913, 191914, and 191918 input cards.



**If installed with 24VDC Aux Power

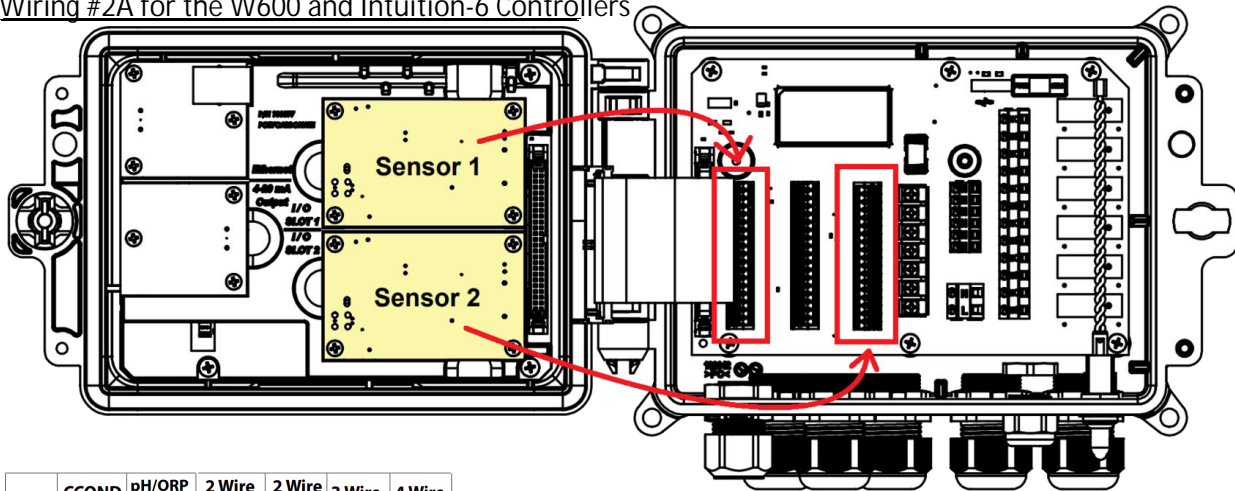




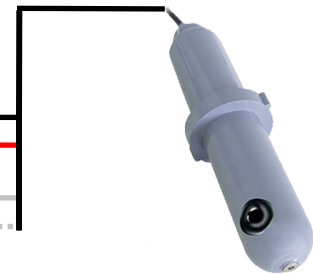
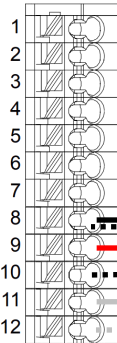
Wiring Diagram #2A, Powered from Controller Analog Input

Wire Color	Designation	Terminal Wiring in Controller
Red	24V +	+24V
Black	24V Power ground	24V (-) / GND
White	4-20mA +	XMTR+ / Input -
Green	(Not Used)	None, leave disconnected
Blue	RS-485 A	None, leave disconnected
Yellow	RS-485 B	None, leave disconnected
Clear	Shield	Shield / Ground Stud

Wiring #2A for the W600 and Intuition-6 Controllers



	CCOND	pH/ORP DIS	2 Wire Loop	2 Wire Pwr'd	3 Wire	4 Wire
1	TEMP-	TEMP-				
2	TEMP+	TEMP+				
3	SHIELD	IN-				
4	RCV	IN+				
5		-5V				
6	XMT					
7		+5V				
8					COM(-) 24V(-)	
9			+24V		+24V	+24V
10				XMTR-		XMTR-
11				XMTR-	XMTR+	XMTR+
12			SHIELD or use DI SHIELD (TB3 7-12)			

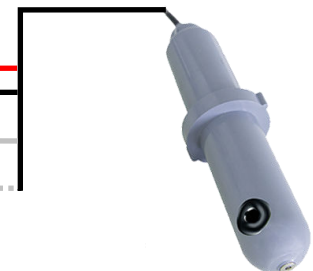
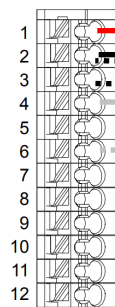


COMBINATION SENSOR/ANALOG CARD LABEL

TB Pin#	Type of Transmitter				AI#
	2 Wire Loop	2 Wire Powered	3 Wire	4 Wire	
1	+24V		+24V	+24V	1
2				24V(-)	
3		XMTR-		XMTR-	
4	XMTR-	XMTR+	XMTR+	XMTR+	
5			COM(-)		
6	SHIELD	SHIELD	SHIELD	SHIELD	
7	+24V		+24V	+24V	2
8				24V(-)	
9		XMTR-		XMTR-	
10	XMTR-	XMTR+	XMTR+	XMTR+	
11			COM(-)		
12	SHIELD	SHIELD	SHIELD	SHIELD	

DUAL ANALOG INPUT CARD LABEL

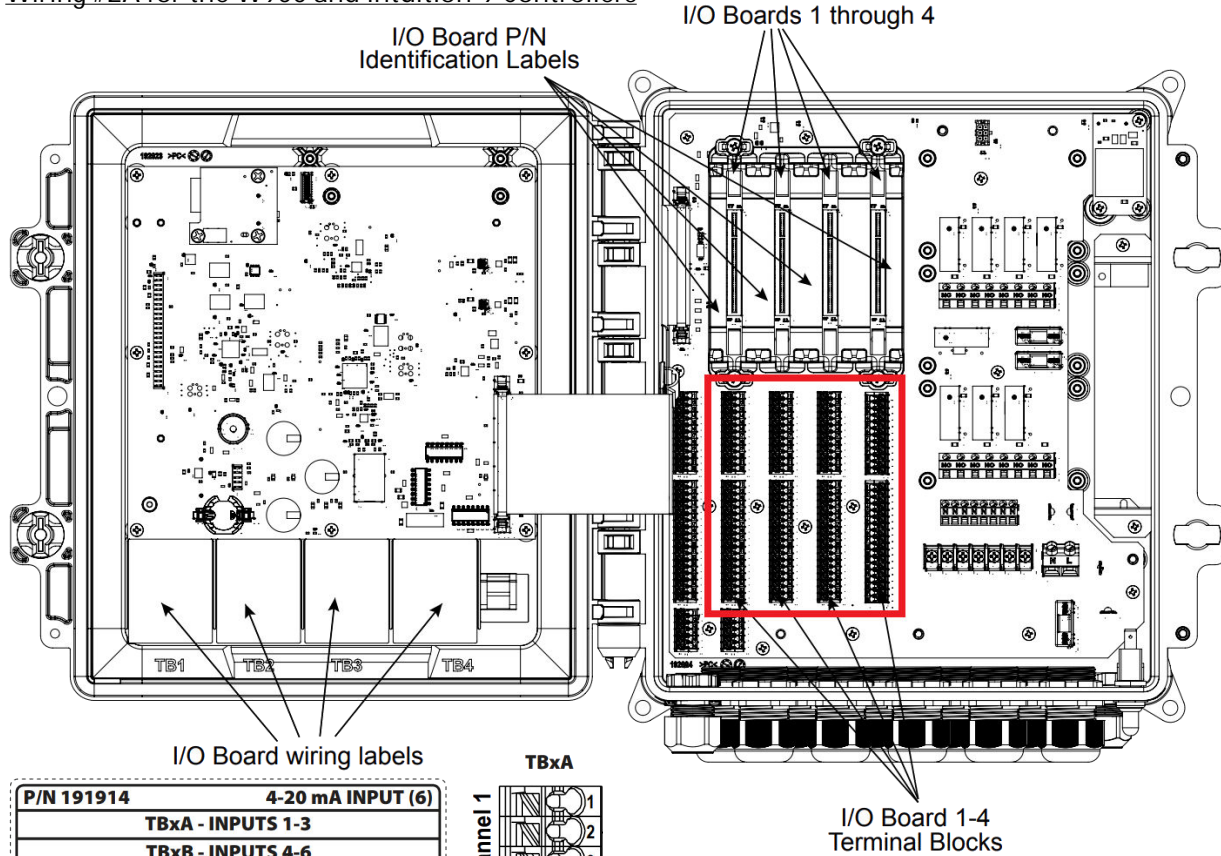
TB1 (for Sensor 1) or
TB2 (for optional Sensor 2)



TB1 (for Sensor 1) or
TB2 (for optional Sensor 2)

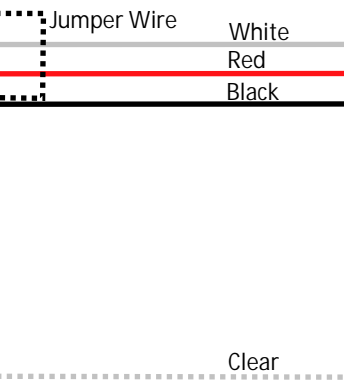
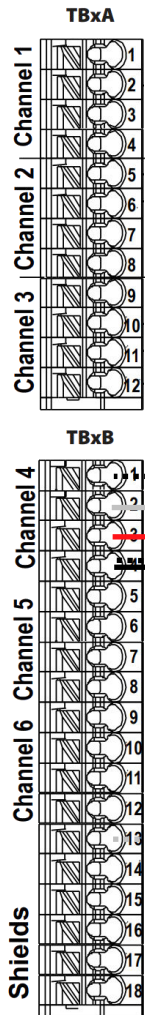


Wiring #2A for the W900 and Intuition-9 Controllers



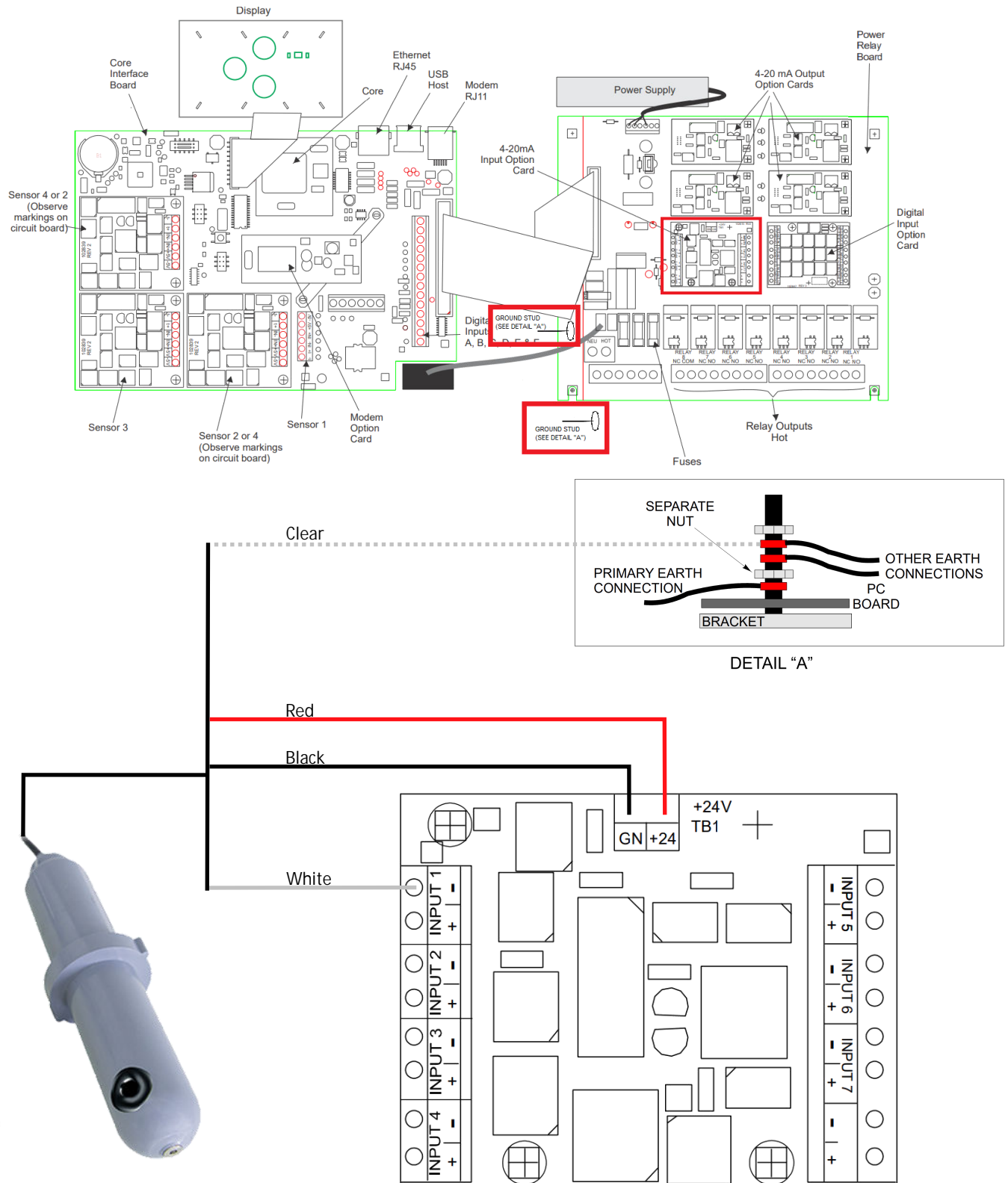
P/N 191914		4-20 mA INPUT (6)			
		TBxA - INPUTS 1-3		TBxB - INPUTS 4-6	
TB	Ch	2 Wire Loop	2 Wire Pwr	3 Wire	4 Wire
1	1,4		XMTR-		XMTR-
2		XMTR-	XMTR+	XMTR+	XMTR+
3		+24V		+24V	+24V
4				COM(-)	24V(-)
5	2,5		XMTR-		XMTR-
6		XMTR-	XMTR+	XMTR+	XMTR+
7		+24V		+24V	+24V
8				COM(-)	24V(-)
9	3,6		XMTR-		XMTR-
10		XMTR-	XMTR+	XMTR+	XMTR+
11		+24V		+24V	+24V
12				COM(-)	24V(-)
13-18		⏏	⏏	⏏	⏏

* Refer to the I/O board wiring label for the correct wiring and channel locations. Channel locations differ across the 191912, 191913, 191914, and 191918 input cards.





Wiring #2A for the WebMasterONE and Webmaster Industrial Controllers

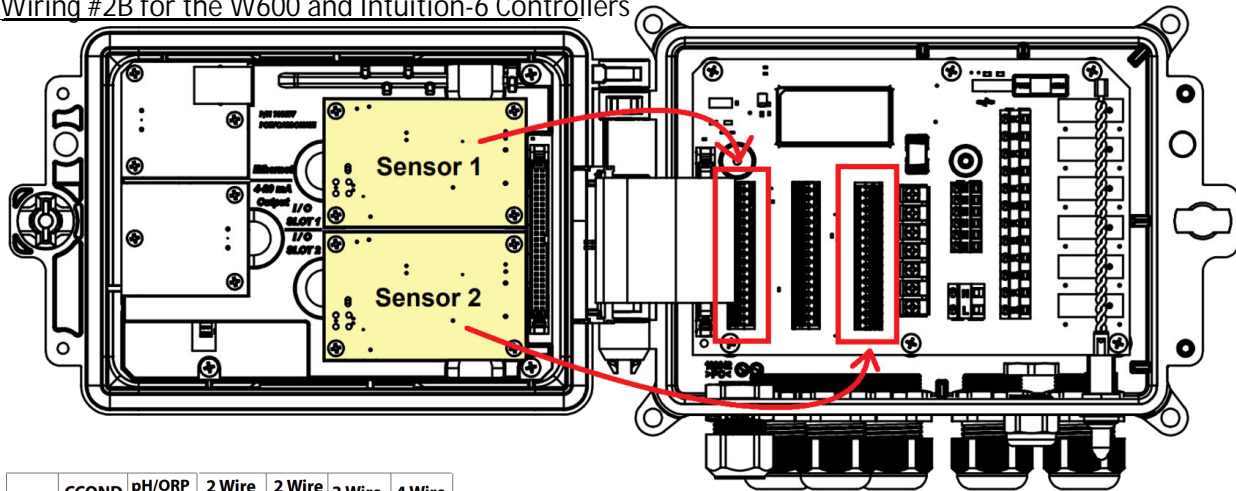




Wiring Diagram #2B, Powered Externally

Wire Color	Designation	Terminal Wiring in Controller
Red	24V +	+24V on External Power Supply
Black	24V Power ground	-24V on External Power Supply
White	4-20mA +	XMTR+ / Input -
Green	(Not Used)	None, leave disconnected
Blue	RS-485 A	None, leave disconnected
Yellow	RS-485 B	None, leave disconnected
Clear	Shield	Shield / Ground Stud

Wiring #2B for the W600 and Intuition-6 Controllers

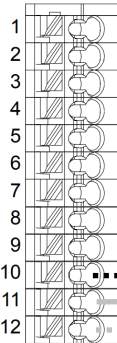


	CCOND	pH/ORP DIS	2 Wire Loop	2 Wire Pwr'd	3 Wire	4 Wire
1	TEMP-	TEMP-				
2	TEMP+	TEMP+				
3	SHIELD	IN-				
4	RCV	IN+				
5		-5V				
6	XMT					
7		+5V				
8					COM(-)	24V(-)
9			+24V		+24V	+24V
10				XMTR-		XMTR-
11				XMTR-	XMTR+	XMTR+
12			SHIELD or use DI SHIELD (TB3 7-12)			

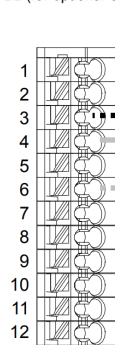
COMBINATION SENSOR/ANALOG CARD LABEL

TB Pin#	Type of Transmitter				AI#
	2 Wire Loop	2 Wire Powered	3 Wire	4 Wire	
1	+24V		+24V	+24V	1
2				24V(-)	
3		XMTR-		XMTR-	
4	XMTR-	XMTR+	XMTR+	XMTR+	
5			COM(-)		
6	SHIELD	SHIELD	SHIELD	SHIELD	
7	+24V		+24V	+24V	2
8				24V(-)	
9		XMTR-		XMTR-	
10	XMTR-	XMTR+	XMTR+	XMTR+	
11			COM(-)		
12	SHIELD	SHIELD	SHIELD	SHIELD	

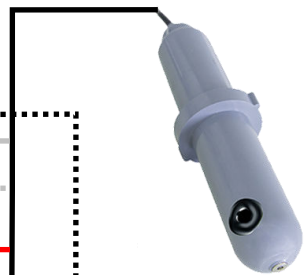
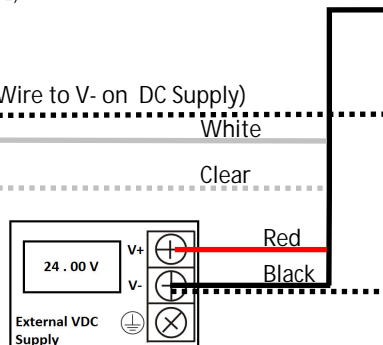
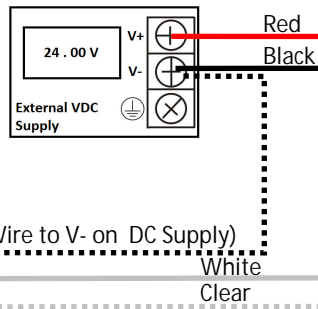
DUAL ANALOG INPUT CARD LABEL



TB1 (for Sensor 1) or TB2 (for optional Sensor 2)

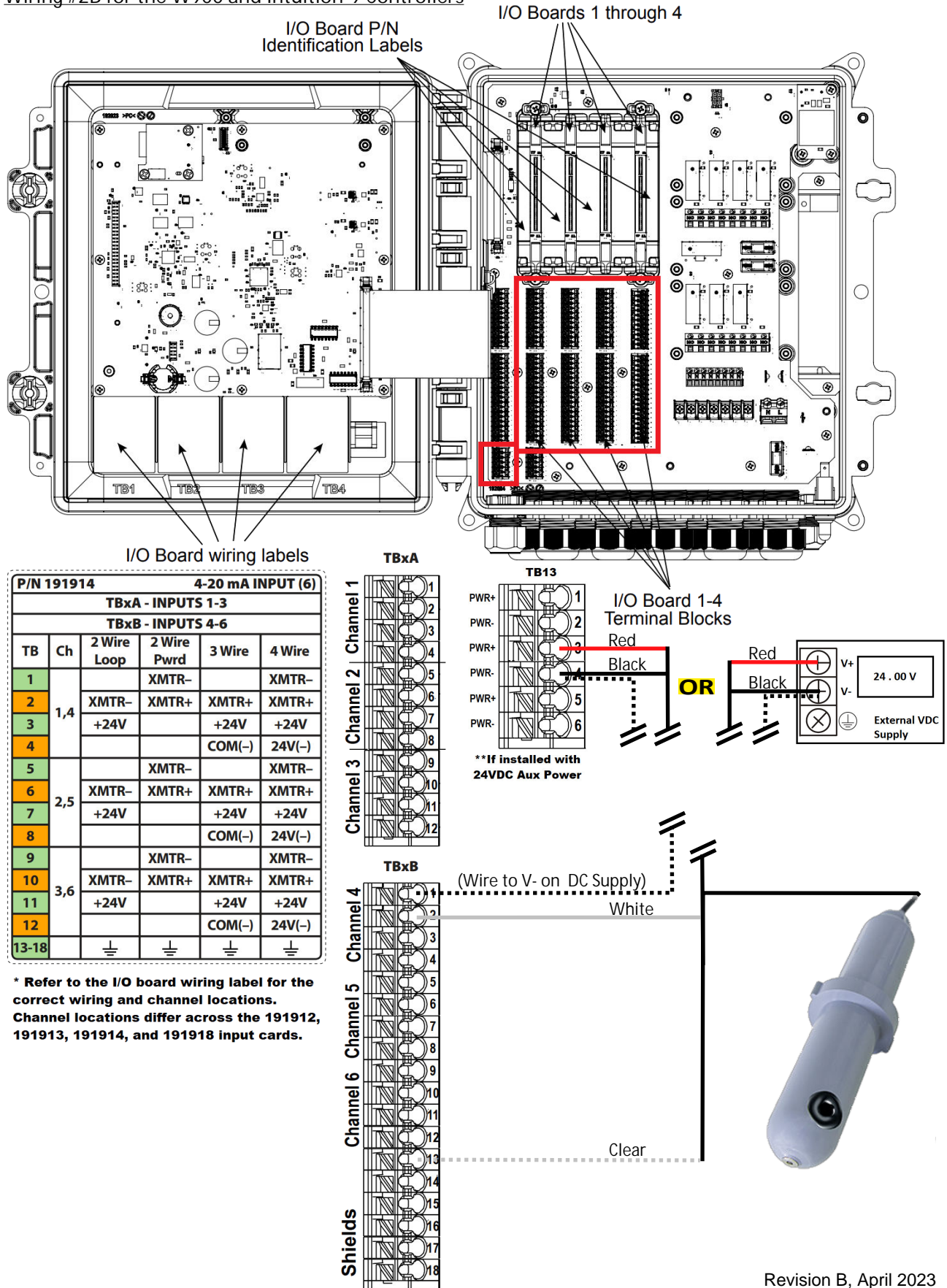


TB1 (for Sensor 1) or TB2 (for optional Sensor 2)





Wiring #2B for the W900 and Intuition-9 Controllers



P/N 191914		4-20 mA INPUT (6)			
		TBxA - INPUTS 1-3		TBxB - INPUTS 4-6	
TB	Ch	2 Wire Loop	2 Wire Pwr	3 Wire	4 Wire
1	1,4		XMTR-		XMTR-
2		XMTR-	XMTR+	XMTR+	XMTR+
3		+24V		+24V	+24V
4				COM(-)	24V(-)
5	2,5		XMTR-		XMTR-
6		XMTR-	XMTR+	XMTR+	XMTR+
7		+24V		+24V	+24V
8				COM(-)	24V(-)
9	3,6		XMTR-		XMTR-
10		XMTR-	XMTR+	XMTR+	XMTR+
11		+24V		+24V	+24V
12				COM(-)	24V(-)
13-18					

* Refer to the I/O board wiring label for the correct wiring and channel locations. Channel locations differ across the 191912, 191913, 191914, and 191918 input cards.

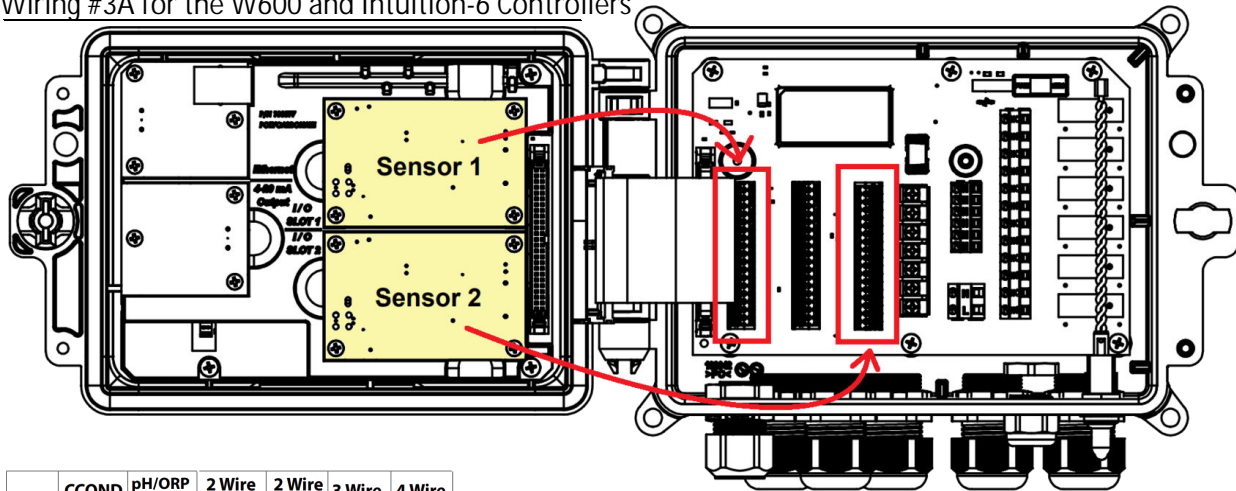


Wiring Diagram #3A, Powered from Controller Analog Input

Wire Color	Designation	Terminal Wiring in Controller
Red	24V +	+24V
Brown	24V Power ground	24V (-) / GND
White	4–20mA + Parameter 1 (see Pyxis manual)	XMTR+ / Input –
Pink	4–20mA + Parameter 2 (see Pyxis manual)	XMTR+ / Input – (see drawing)
Gray*	4–20mA – (*internally connected to Brown)	XMTR– (see drawing)
Blue	RS-485 A	None, leave disconnected
Yellow	RS-485 B	None, leave disconnected
Green	RS-485 C / GND	None, leave disconnected
Black**	Shield	Shield / Ground Stud

**Wire may be Silver or Clear or missing in some cases.

Wiring #3A for the W600 and Intuition-6 Controllers



	CCOND	pH/ORP DIS	2 Wire Loop	2 Wire Pwr	3 Wire	4 Wire
1	TEMP-	TEMP-				
2	TEMP+	TEMP+				
3	SHIELD	IN-				
4	RCV	IN+				
5		-5V				
6	XMT	+5V				
8					COM(-)	24V(-)
9			+24V		+24V	+24V
10				XMTR-		XMTR-
11				XMTR-	XMTR+	XMTR+
12			SHIELD or use DI SHIELD (TB3 7-12)			

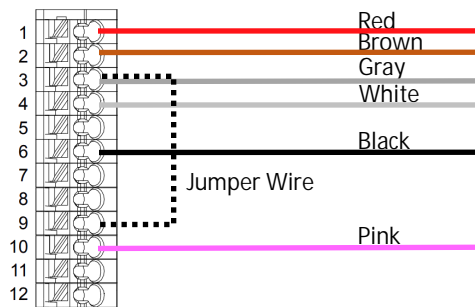
(Contact your Walchem Distributor or the Factory)

COMBINATION SENSOR/ANALOG CARD LABEL

TB Pin#	Type of Transmitter				AI#
	2 Wire Loop	2 Wire Powered	3 Wire	4 Wire	
1	+24V		+24V	+24V	1
2				24V(-)	
3		XMTR-		XMTR-	
4	XMTR-	XMTR+	XMTR+	XMTR+	
5			COM(-)		
6	SHIELD	SHIELD	SHIELD	SHIELD	
7	+24V		+24V	+24V	2
8				24V(-)	
9		XMTR-		XMTR-	
10	XMTR-	XMTR+	XMTR+	XMTR+	
11			COM(-)		
12	SHIELD	SHIELD	SHIELD	SHIELD	

DUAL ANALOG INPUT CARD LABEL

TB1 (for Sensor 1) or
TB2 (for optional Sensor 2)

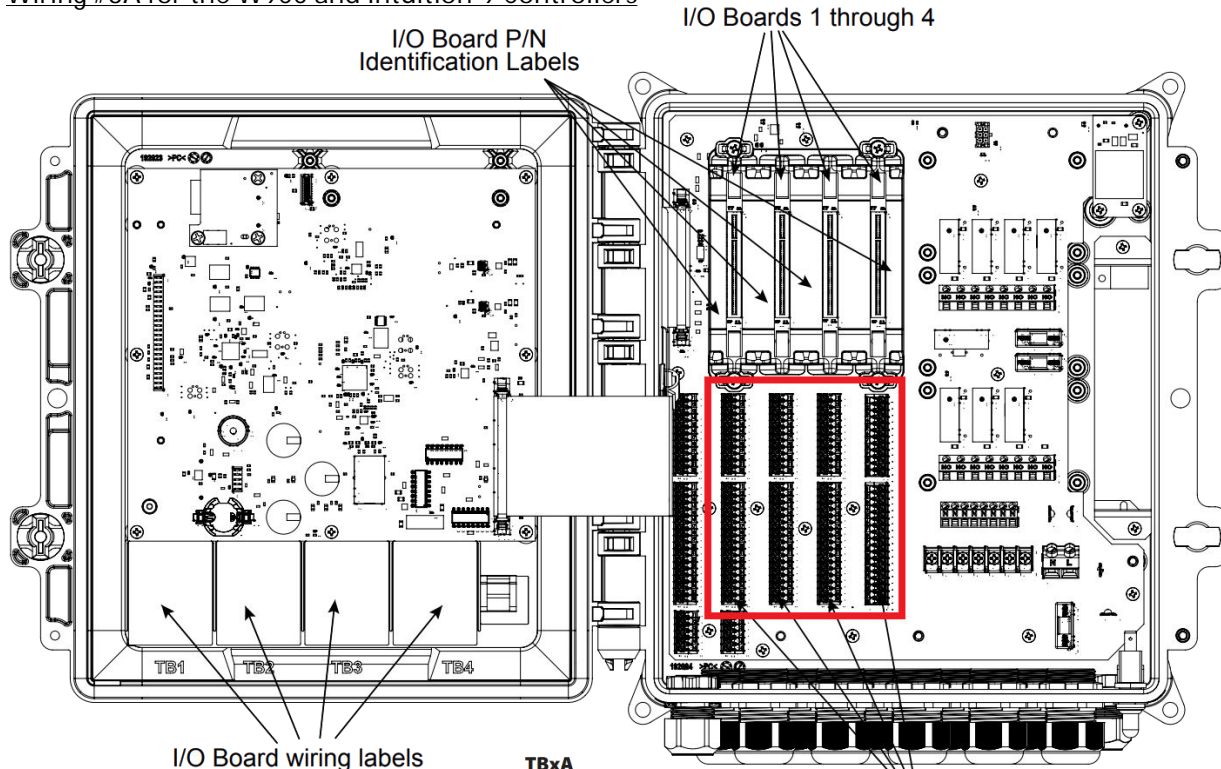


TB1 (for Sensor 1) or
TB2 (for optional Sensor 2)



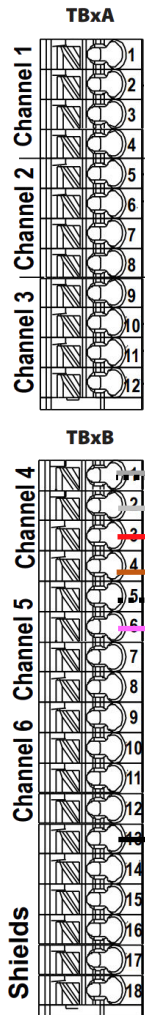


Wiring #3A for the W900 and Intuition-9 Controllers

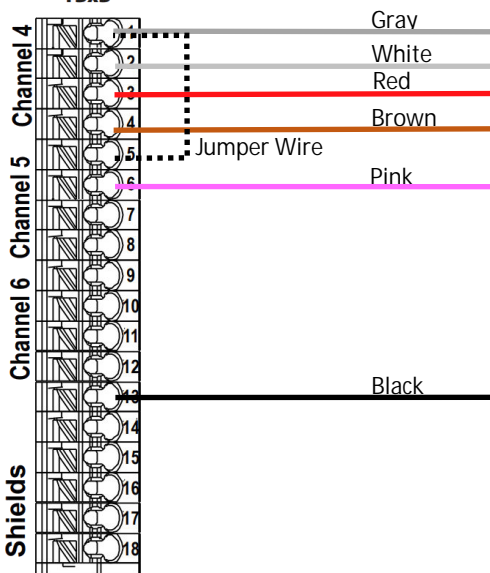


P/N 191914		4-20 mA INPUT (6)			
		TBxA - INPUTS 1-3		TBxB - INPUTS 4-6	
TB	Ch	2 Wire Loop	2 Wire Pwr	3 Wire	4 Wire
1	1,4		XMTR-		XMTR-
2		XMTR-	XMTR+	XMTR+	XMTR+
3		+24V		+24V	+24V
4				COM(-)	24V(-)
5	2,5		XMTR-		XMTR-
6		XMTR-	XMTR+	XMTR+	XMTR+
7		+24V		+24V	+24V
8				COM(-)	24V(-)
9	3,6		XMTR-		XMTR-
10		XMTR-	XMTR+	XMTR+	XMTR+
11		+24V		+24V	+24V
12				COM(-)	24V(-)
13-18		⏚	⏚	⏚	⏚

* Refer to the I/O board wiring label for the correct wiring and channel locations. Channel locations differ across the 191912, 191913, 191914, and 191918 input cards.

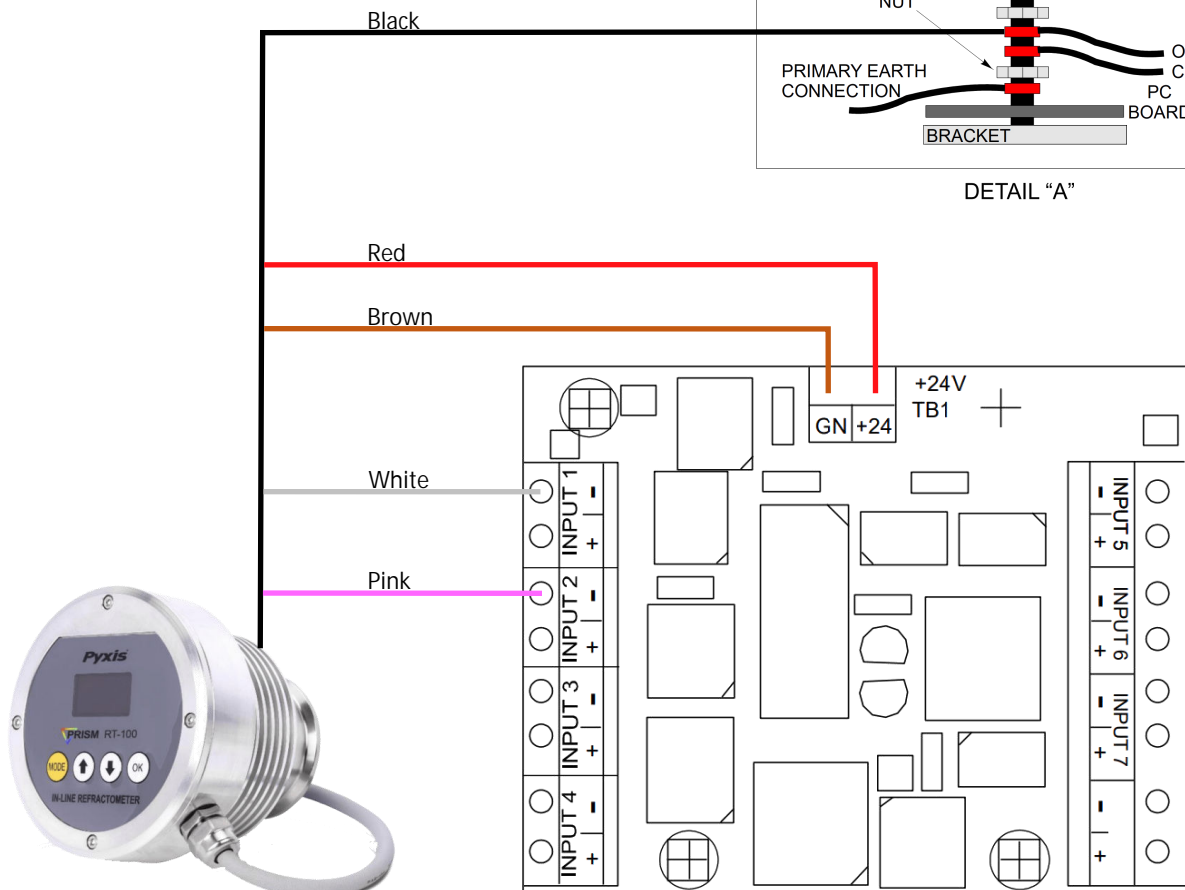
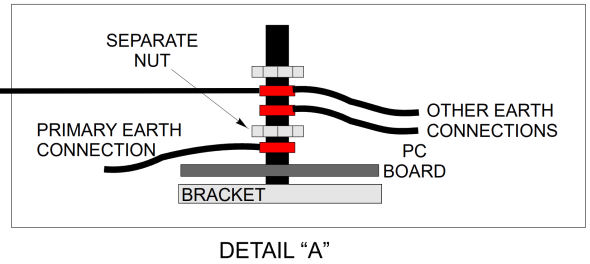
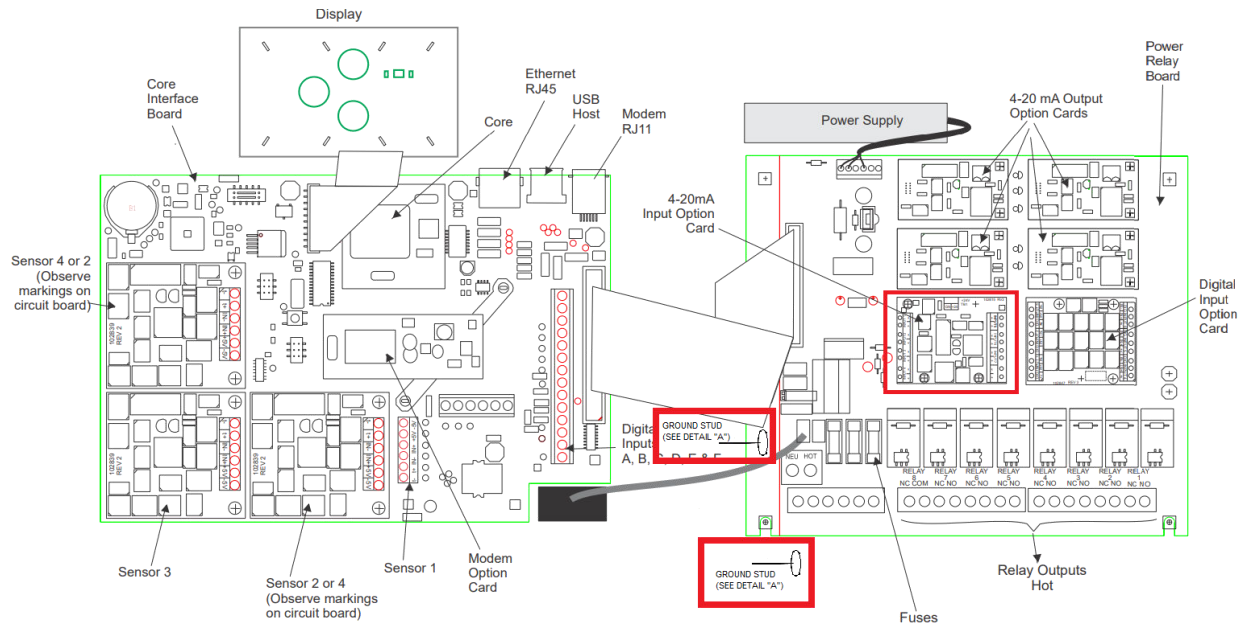


I/O Board 1-4 Terminal Blocks





Wiring #3A for the WebMasterONE and Webmaster Industrial Controllers



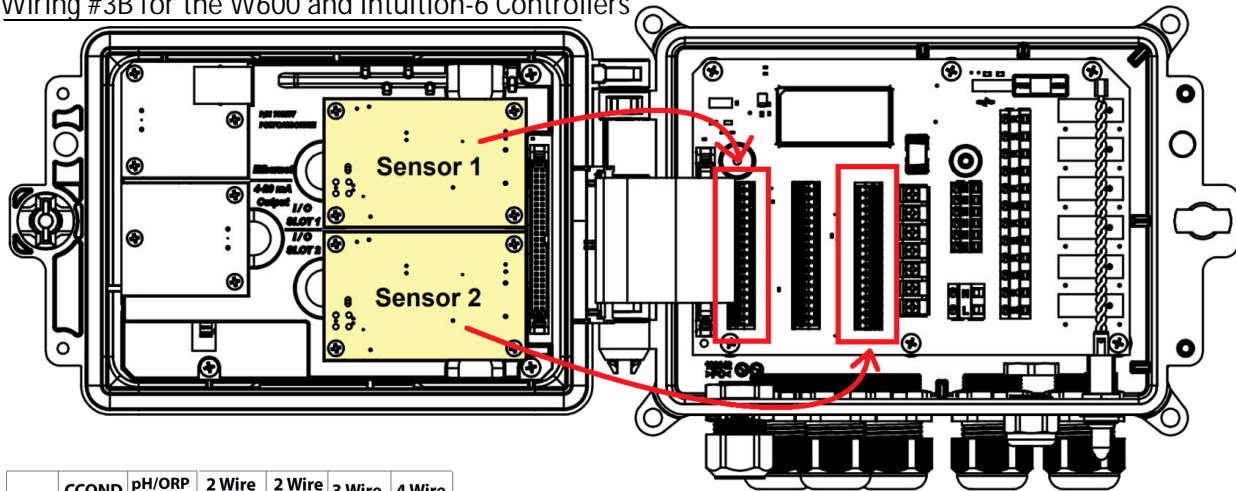


Wiring Diagram #3B, Powered Externally

Wire Color	Designation	Terminal Wiring in Controller
Red	24V +	+24V on External Power Supply
Brown	24V Power ground	-24V on External Power Supply
White	4-20mA + Parameter 1 (see Pyxis manual)	XMTR+ / Input -
Pink	4-20mA + Parameter 2 (see Pyxis manual)	XMTR+ / Input - (see drawing)
Gray*	4-20mA - (*internally connected to Brown)	XMTR- (see drawing)
Blue	RS-485 A	None, leave disconnected
Yellow	RS-485 B	None, leave disconnected
Green	RS-485 C / GND	None, leave disconnected
Black**	Shield	Shield / Ground Stud

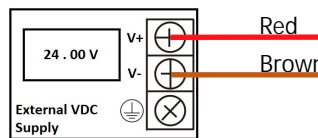
**Wire may be Silver or Clear or missing in some cases.

Wiring #3B for the W600 and Intuition-6 Controllers



	CCOND	pH/ORP DIS	2 Wire Loop	2 Wire Pwr	3 Wire	4 Wire
1	TEMP-	TEMP-				
2	TEMP+	TEMP+				
3	SHIELD	IN-				
4	RCV	IN+				
5		-5V				
6	XMT	+5V				
7						
8					COM(-)	24V(-)
9			+24V		+24V	+24V
10					XMTR-	XMTR-
11					XMTR-	XMTR+
12					SHIELD or use DI SHIELD (TB3 7-12)	

(Contact your Walchem Distributor or the Factory)

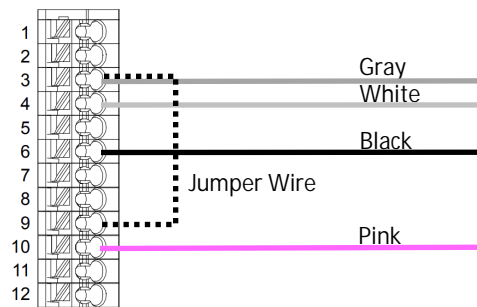


COMBINATION SENSOR/ANALOG CARD LABEL

TB Pin#	Type of Transmitter				AI#
	2 Wire Loop	2 Wire Powered	3 Wire	4 Wire	
1	+24V		+24V	+24V	1
2				24V(-)	
3		XMTR-		XMTR-	
4	XMTR-	XMTR+	XMTR+	XMTR+	
5			COM(-)		
6	SHIELD	SHIELD	SHIELD	SHIELD	
7	+24V		+24V	+24V	2
8				24V(-)	
9		XMTR-		XMTR-	
10	XMTR-	XMTR+	XMTR+	XMTR+	
11			COM(-)		
12	SHIELD	SHIELD	SHIELD	SHIELD	

DUAL ANALOG INPUT CARD LABEL

TB1 (for Sensor 1) or TB2 (for optional Sensor 2)

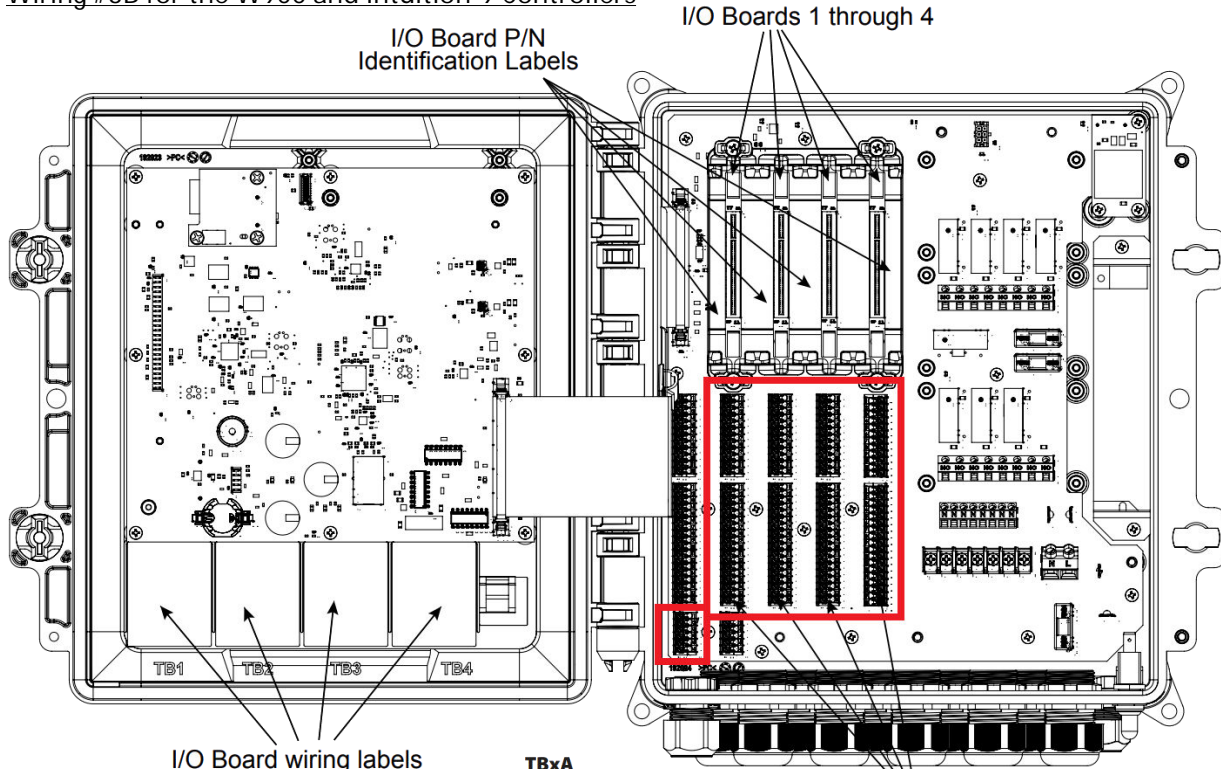


TB1 (for Sensor 1) or TB2 (for optional Sensor 2)



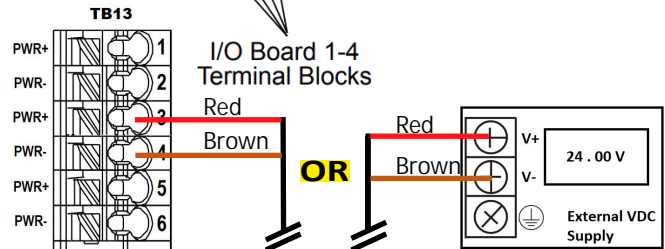
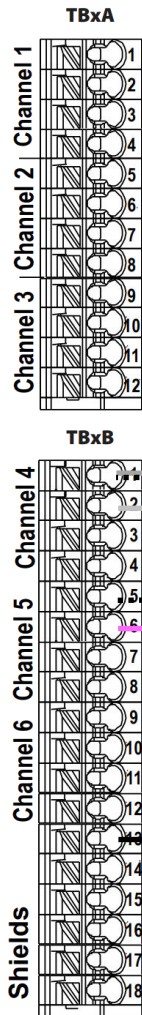


Wiring #3B for the W900 and Intuition-9 Controllers

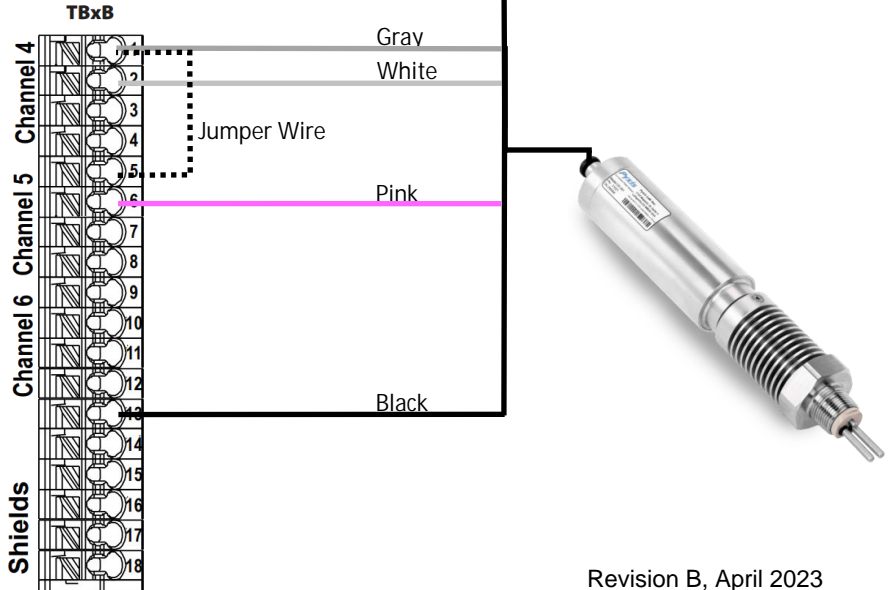


P/N 191914		4-20 mA INPUT (6)			
		TBxA - INPUTS 1-3		TBxB - INPUTS 4-6	
TB	Ch	2 Wire Loop	2 Wire Pwr	3 Wire	4 Wire
1	1,4		XMTR-		XMTR-
2		XMTR-	XMTR+	XMTR+	XMTR+
3		+24V		+24V	+24V
4				COM(-)	24V(-)
5	2,5		XMTR-		XMTR-
6		XMTR-	XMTR+	XMTR+	XMTR+
7		+24V		+24V	+24V
8				COM(-)	24V(-)
9	3,6		XMTR-		XMTR-
10		XMTR-	XMTR+	XMTR+	XMTR+
11		+24V		+24V	+24V
12				COM(-)	24V(-)
13-18					

* Refer to the I/O board wiring label for the correct wiring and channel locations. Channel locations differ across the 191912, 191913, 191914, and 191918 input cards.



**If installed with 24VDC Aux Power



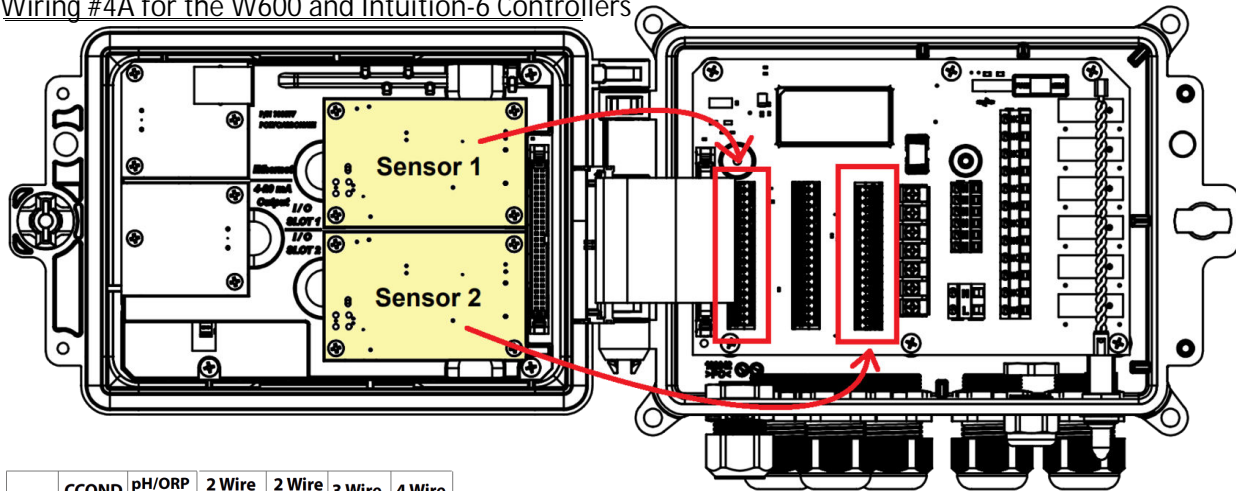


Wiring Diagram #4A, Powered from Controller Analog Input

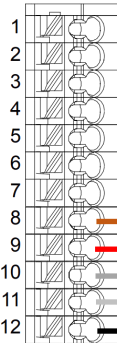
Wire Color	Designation	Terminal Wiring in Controller
Red	24V +	+24V
Brown	24V Power ground	24V (-) / GND
White	4-20mA +	XMTR+ / Input -
Gray*	4-20mA - (*internally connected to Brown)	XMTR- (see drawing)
Blue	RS-485 A	None, leave disconnected
Yellow	RS-485 B	None, leave disconnected
Pink	RS-485 C / GND	None, leave disconnected
Green	Earth ground	None, leave disconnected
Black**	Shield	Shield / Ground Stud

**Wire may be Silver or Clear or missing in some cases.

Wiring #4A for the W600 and Intuition-6 Controllers



	CCOND	pH/ORP DIS	2 Wire Loop	2 Wire Pwr	3 Wire	4 Wire
1	TEMP-	TEMP-				
2	TEMP+	TEMP+				
3	SHIELD	IN-				
4	RCV	IN+				
5		-5V				
6	XMT	+5V				
8					COM(-)	24V(-)
9			+24V		+24V	+24V
10					XMTR-	XMTR-
11					XMTR-	XMTR+
12					SHIELD or use DI SHIELD (TB3 7-12)	

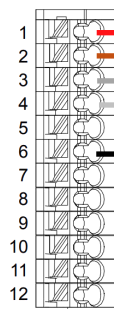


COMBINATION SENSOR/ANALOG CARD LABEL

TB Pin#	Type of Transmitter				AI#
	2 Wire Loop	2 Wire Powered	3 Wire	4 Wire	
1	+24V		+24V	+24V	1
2				24V(-)	
3		XMTR-		XMTR-	
4	XMTR-	XMTR+	XMTR+	XMTR+	
5			COM(-)		
6	SHIELD	SHIELD	SHIELD	SHIELD	
7	+24V		+24V	+24V	2
8				24V(-)	
9		XMTR-		XMTR-	
10	XMTR-	XMTR+	XMTR+	XMTR+	
11			COM(-)		
12	SHIELD	SHIELD	SHIELD	SHIELD	

DUAL ANALOG INPUT CARD LABEL

TB1 (for Sensor 1) or
TB2 (for optional Sensor 2)

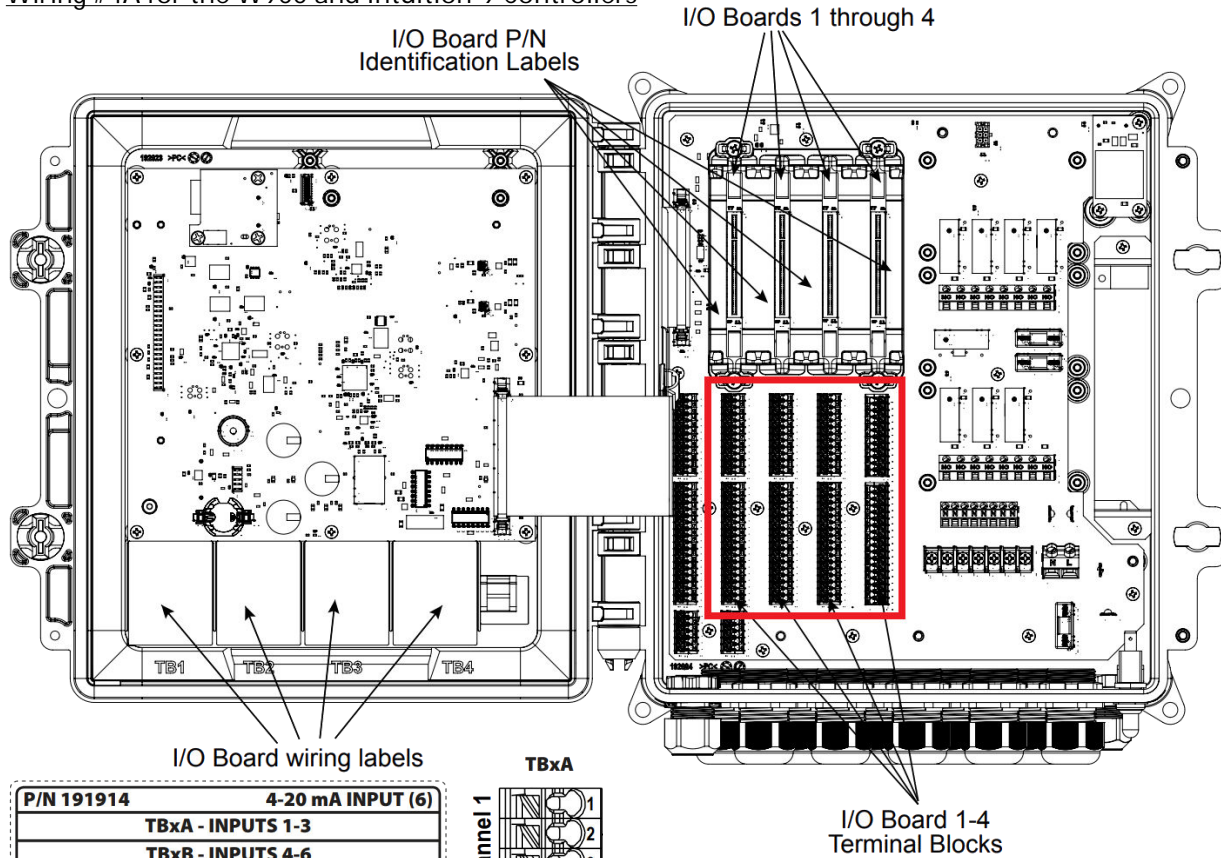


TB1 (for Sensor 1) or
TB2 (for optional Sensor 2)



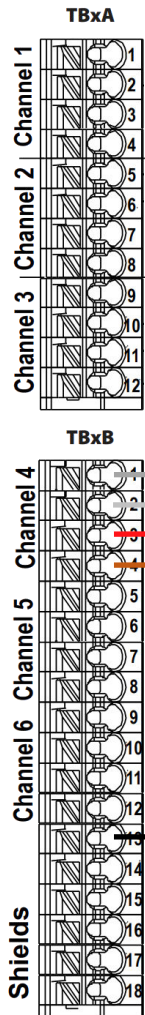


Wiring #4A for the W900 and Intuition-9 Controllers



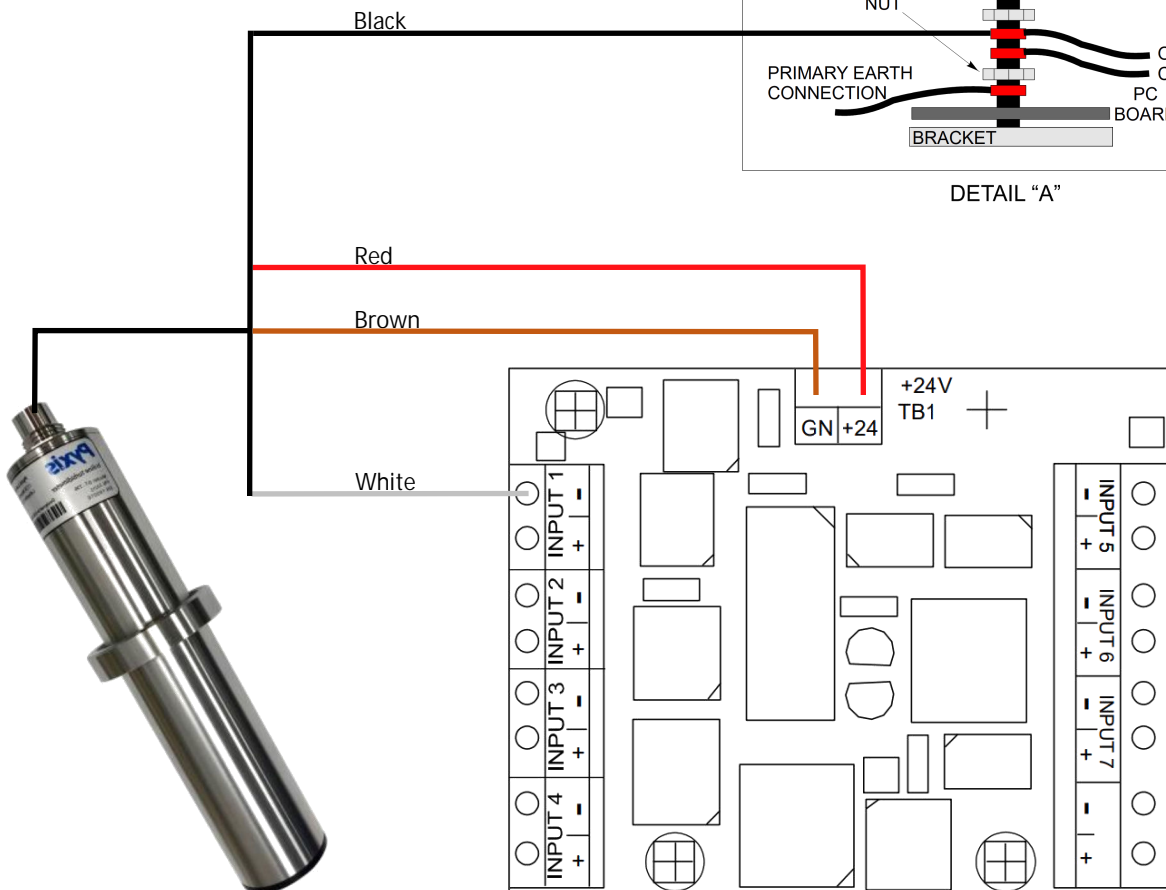
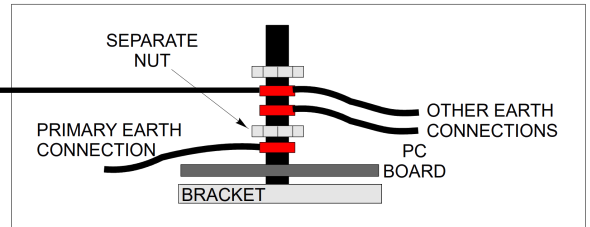
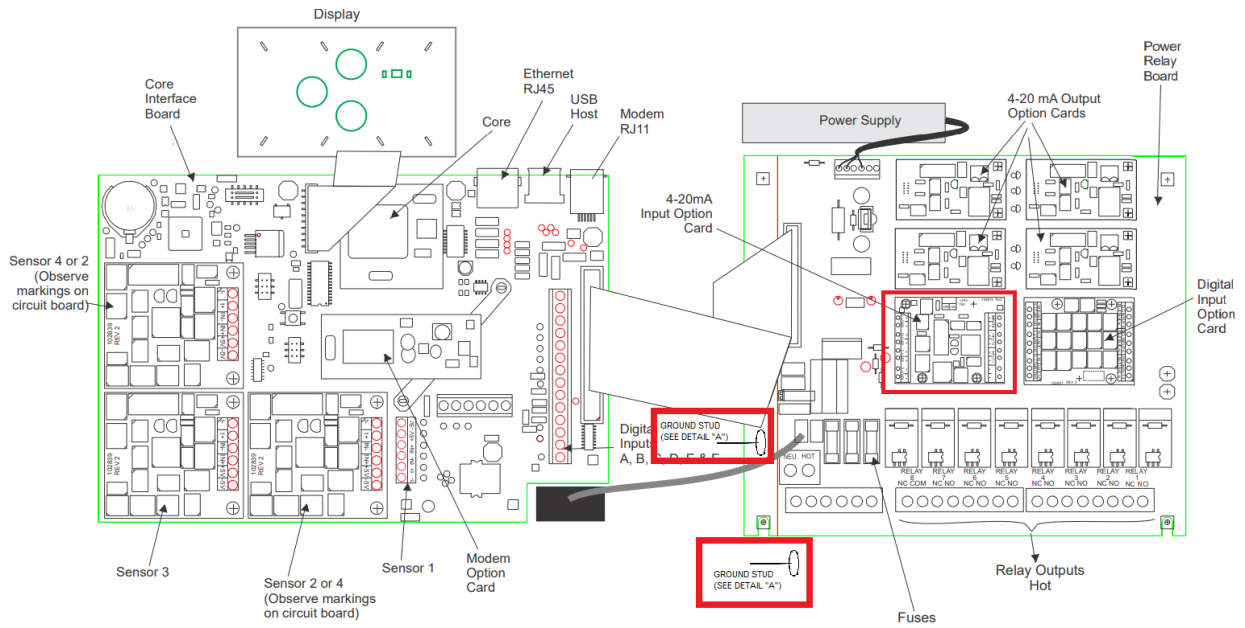
P/N 191914		4-20 mA INPUT (6)			
		TBxA - INPUTS 1-3		TBxB - INPUTS 4-6	
TB	Ch	2 Wire Loop	2 Wire Pwr	3 Wire	4 Wire
1	1,4		XMTR-		XMTR-
2		XMTR-	XMTR+	XMTR+	XMTR+
3		+24V		+24V	+24V
4				COM(-)	24V(-)
5	2,5		XMTR-		XMTR-
6		XMTR-	XMTR+	XMTR+	XMTR+
7		+24V		+24V	+24V
8				COM(-)	24V(-)
9	3,6		XMTR-		XMTR-
10		XMTR-	XMTR+	XMTR+	XMTR+
11		+24V		+24V	+24V
12				COM(-)	24V(-)
13-18		⏚	⏚	⏚	⏚

* Refer to the I/O board wiring label for the correct wiring and channel locations. Channel locations differ across the 191912, 191913, 191914, and 191918 input cards.





Wiring #4A for the WebMasterONE and Webmaster Industrial Controllers



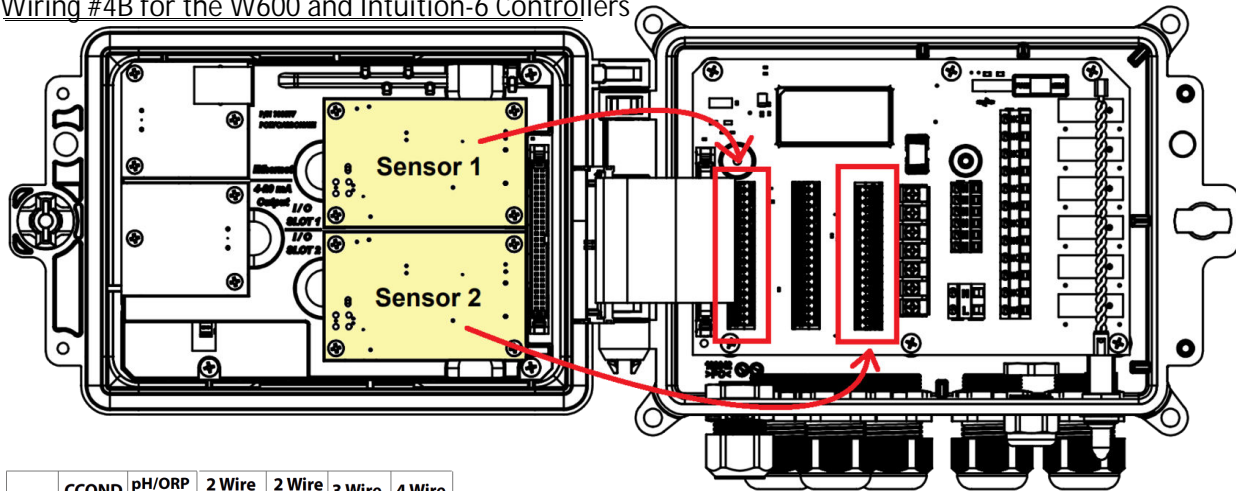


Wiring Diagram #4B, Powered Externally

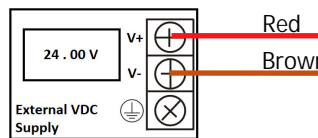
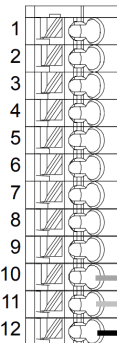
Wire Color	Designation	Terminal Wiring in Controller
Red	24V +	+24V on External Power Supply
Brown	24V Power ground	-24V on External Power Supply
White	4-20mA +	XMTR+ / Input -
Gray*	4-20mA - (*internally connected to Brown)	XMTR- (see drawing)
Blue	RS-485 A	None, leave disconnected
Yellow	RS-485 B	None, leave disconnected
Pink	RS-485 C / GND	None, leave disconnected
Green	Earth ground	None, leave disconnected
Black**	Shield	Shield / Ground Stud

**Wire may be Silver or Clear or missing in some cases.

Wiring #4B for the W600 and Intuition-6 Controllers



	CCOND	pH/ORP DIS	2 Wire Loop	2 Wire Pwr	3 Wire	4 Wire
1	TEMP-	TEMP-				
2	TEMP+	TEMP+				
3	SHIELD	IN-				
4	RCV	IN+				
5		-5V				
6	XMT	+5V				
8					COM(-)	24V(-)
9			+24V		+24V	+24V
10				XMTR-		XMTR-
11				XMTR-	XMTR+	XMTR+
12			SHIELD or use DI SHIELD (TB3 7-12)			

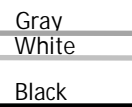
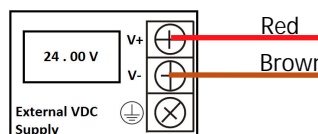
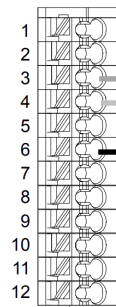


COMBINATION SENSOR/ANALOG CARD LABEL

TB Pin#	Type of Transmitter				AI#
	2 Wire Loop	2 Wire Powered	3 Wire	4 Wire	
1	+24V		+24V	+24V	1
2				24V(-)	
3		XMTR-		XMTR-	
4	XMTR-	XMTR+	XMTR+	XMTR+	
5			COM(-)		
6	SHIELD	SHIELD	SHIELD	SHIELD	
7	+24V		+24V	+24V	2
8				24V(-)	
9		XMTR-		XMTR-	
10	XMTR-	XMTR+	XMTR+	XMTR+	
11			COM(-)		
12	SHIELD	SHIELD	SHIELD	SHIELD	

DUAL ANALOG INPUT CARD LABEL

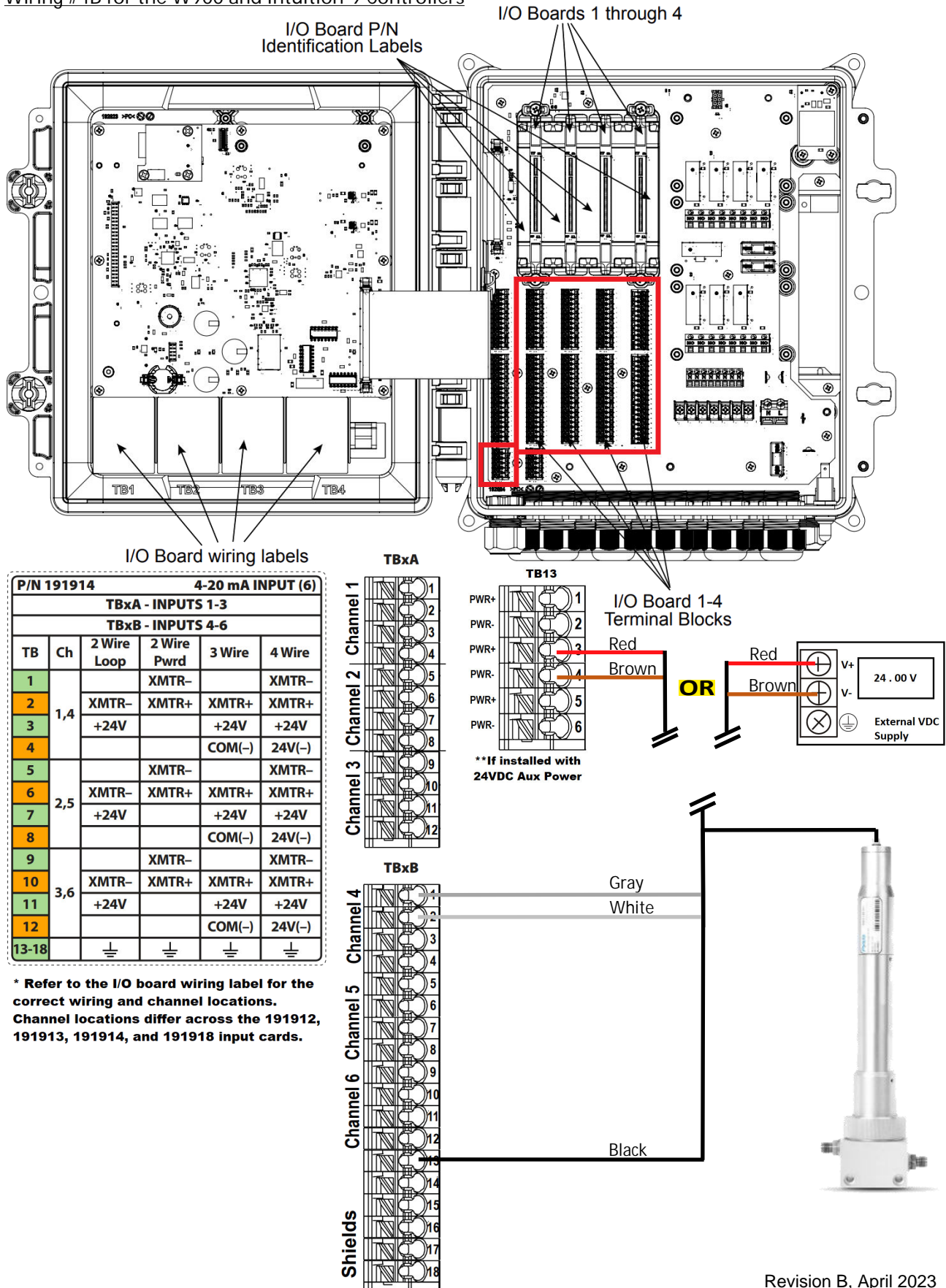
TB1 (for Sensor 1) or
TB2 (for optional Sensor 2)



TB1 (for Sensor 1) or
TB2 (for optional Sensor 2)



Wiring #4B for the W900 and Intuition-9 Controllers



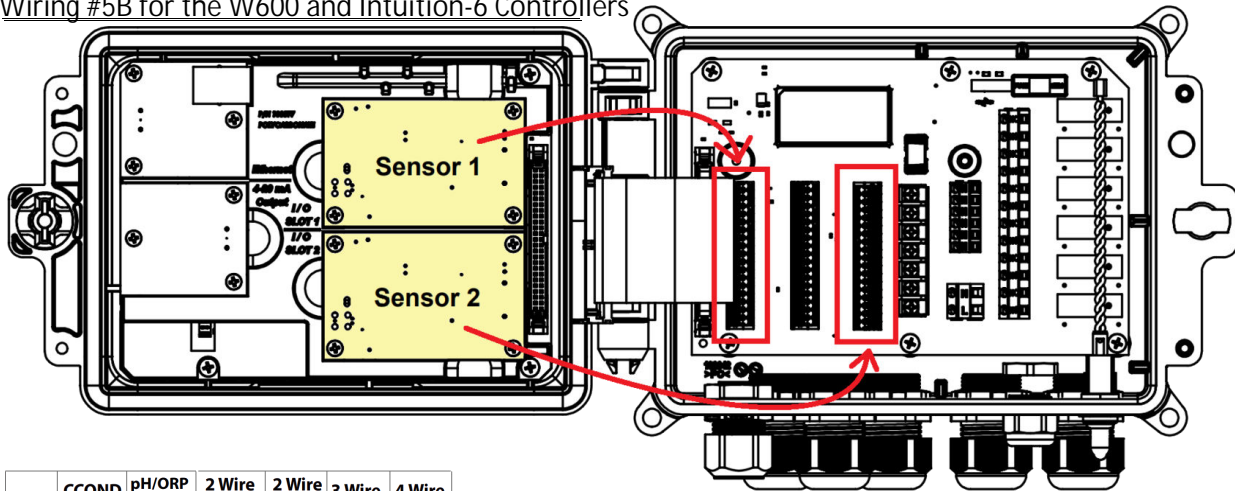


Wiring Diagram #5B, Powered Externally

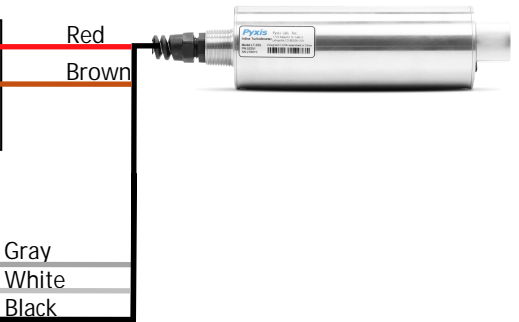
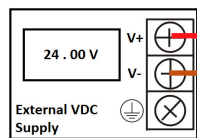
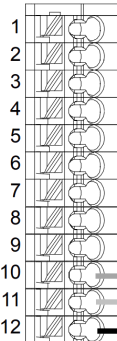
Wire Color	Designation	Terminal Wiring in Controller
Red	24V +	+24V on External Power Supply
Brown	24V Power ground	-24V on External Power Supply
White	4-20mA +	XMTR+ / Input -
Gray*	4-20mA - (*internally connected to Brown)	XMTR- (see drawing)
Blue	RS-485 A	None, leave disconnected
Yellow	RS-485 B	None, leave disconnected
Pink	(Not Used)	None, leave disconnected
Green	RS-485 C / GND	None, leave disconnected
Black**	Shield	Shield / Ground Stud

**Wire may be Silver or Clear or missing in some cases.

Wiring #5B for the W600 and Intuition-6 Controllers



	CCOND	pH/ORP DIS	2 Wire Loop	2 Wire Pwr'd	3 Wire	4 Wire
1	TEMP-	TEMP-				
2	TEMP+	TEMP+				
3	SHIELD	IN-				
4	RCV	IN+				
5		-5V				
6	XMT	+5V				
8					COM(-)	24V(-)
9			+24V		+24V	+24V
10				XMTR-		XMTR-
11				XMTR-	XMTR+	XMTR+
12			SHIELD or use DI SHIELD (TB3 7-12)			

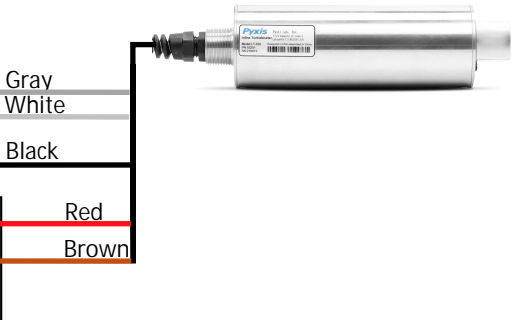
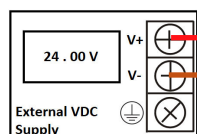
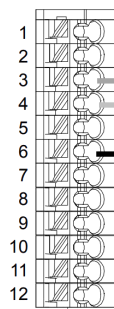


COMBINATION SENSOR/ANALOG CARD LABEL

TB Pin#	Type of Transmitter				AI#
	2 Wire Loop	2 Wire Powered	3 Wire	4 Wire	
1	+24V		+24V	+24V	1
2				24V(-)	
3		XMTR-		XMTR-	
4	XMTR-	XMTR+	XMTR+	XMTR+	
5			COM(-)		
6	SHIELD	SHIELD	SHIELD	SHIELD	
7	+24V		+24V	+24V	2
8				24V(-)	
9		XMTR-		XMTR-	
10	XMTR-	XMTR+	XMTR+	XMTR+	
11			COM(-)		
12	SHIELD	SHIELD	SHIELD	SHIELD	

DUAL ANALOG INPUT CARD LABEL

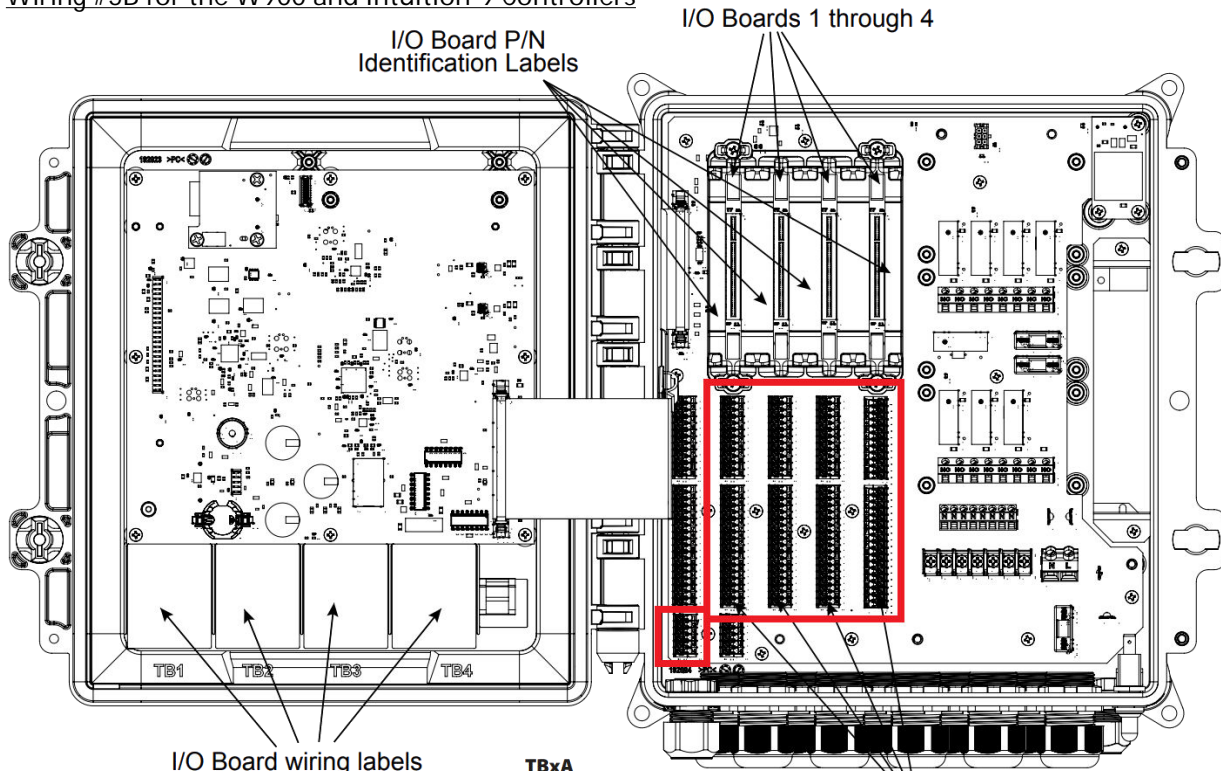
TB1 (for Sensor 1) or
TB2 (for optional Sensor 2)



TB1 (for Sensor 1) or
TB2 (for optional Sensor 2)

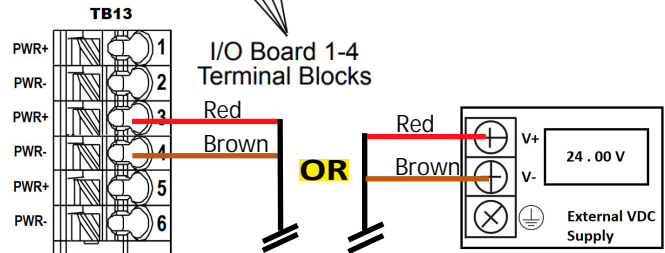
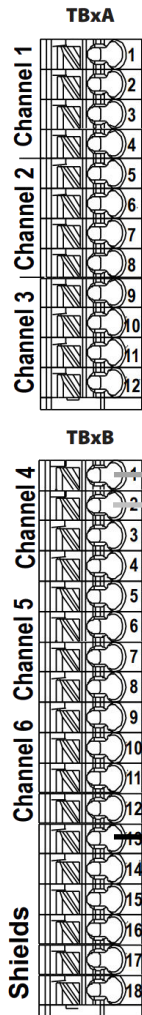


Wiring #5B for the W900 and Intuition-9 Controllers

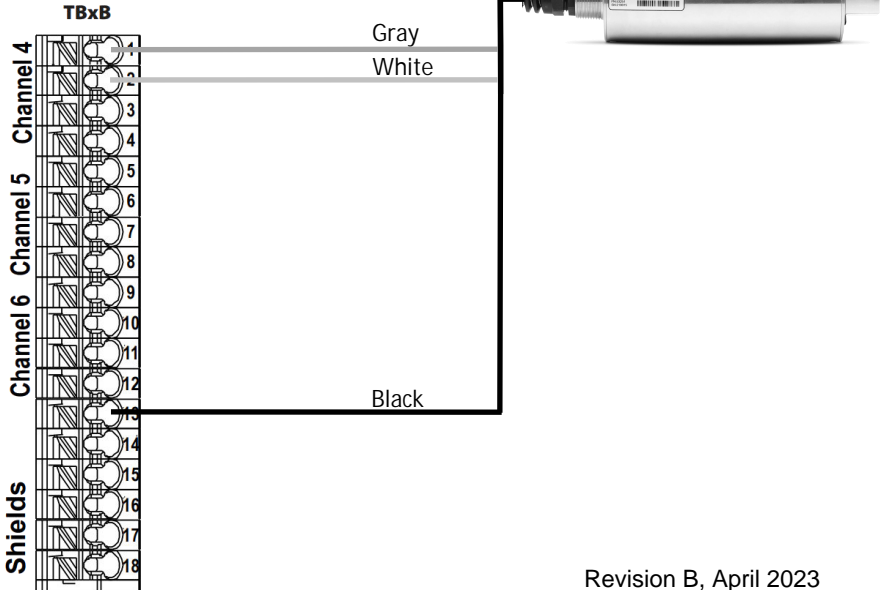


P/N 191914		4-20 mA INPUT (6)			
		TBxA - INPUTS 1-3		TBxB - INPUTS 4-6	
TB	Ch	2 Wire Loop	2 Wire Pwr	3 Wire	4 Wire
1	1,4		XMTR-		XMTR-
2			XMTR+		XMTR+
3		+24V		+24V	+24V
4				COM(-)	24V(-)
5	2,5		XMTR-		XMTR-
6		XMTR-	XMTR+	XMTR+	XMTR+
7		+24V		+24V	+24V
8				COM(-)	24V(-)
9	3,6		XMTR-		XMTR-
10		XMTR-	XMTR+	XMTR+	XMTR+
11		+24V		+24V	+24V
12				COM(-)	24V(-)
13-18					

* Refer to the I/O board wiring label for the correct wiring and channel locations. Channel locations differ across the 191912, 191913, 191914, and 191918 input cards.



**If installed with 24VDC Aux Power

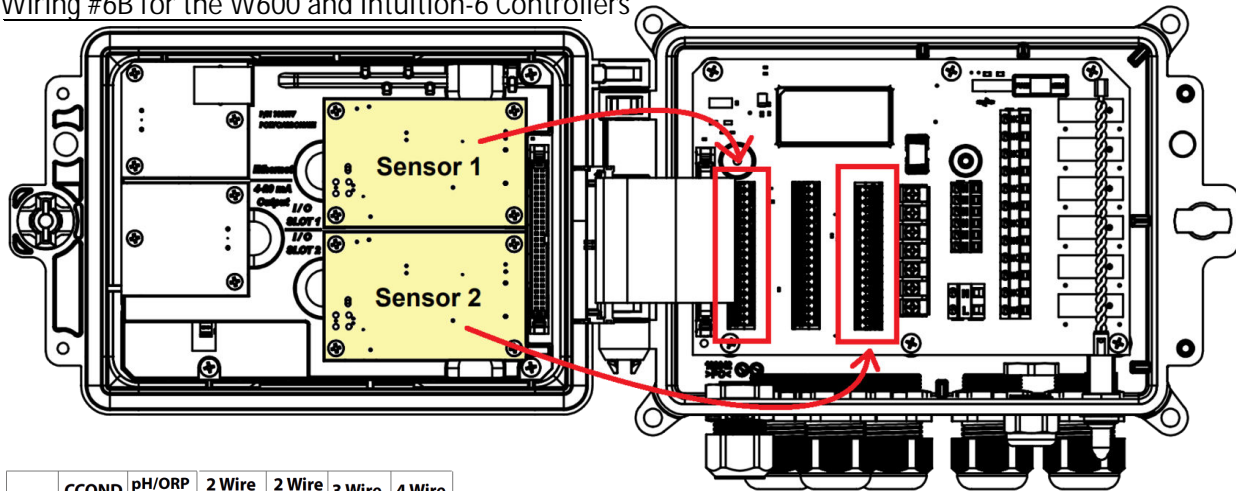




Wiring Diagram #6B, Powered Externally

Wire Color	Designation	Terminal Wiring in Controller
Red	24V +	+24V on External Power Supply
Black	24V Power ground	-24V on External Power Supply
White	4-20mA + Parameter 1 (see Pyxis manual)	XMTR+ / Input -
Green	4-20mA + Parameter 2 (see Pyxis manual)	XMTR+ / Input - (see drawing)
Blue	RS-485 A	None, leave disconnected
Yellow	RS-485 B	None, leave disconnected
Clear	Shield	Shield / Ground Stud

Wiring #6B for the W600 and Intuition-6 Controllers



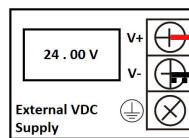
	CCOND	pH/ORP DIS	2 Wire Loop	2 Wire Pwr	3 Wire	4 Wire
1	TEMP-	TEMP-				
2	TEMP+	TEMP+				
3	SHIELD	IN-				
4	RCV	IN+				
5		-5V				
6	XMT	+5V				
8					COM(-)	24V(-)
9			+24V		+24V	+24V
10					XMTR-	XMTR-
11					XMTR-	XMTR+
12					SHIELD or use DI SHIELD (TB3 7-12)	

COMBINATION SENSOR/ANALOG CARD LABEL

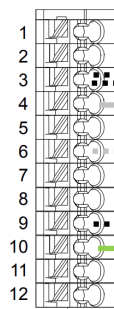
TB Pin#	Type of Transmitter				AI#
	2 Wire Loop	2 Wire Powered	3 Wire	4 Wire	
1	+24V		+24V	+24V	1
2				24V(-)	
3		XMTR-		XMTR-	
4	XMTR-	XMTR+	XMTR+	XMTR+	
5			COM(-)		
6	SHIELD	SHIELD	SHIELD	SHIELD	2
7	+24V		+24V	+24V	
8				24V(-)	
9		XMTR-		XMTR-	
10	XMTR-	XMTR+	XMTR+	XMTR+	
11			COM(-)		
12	SHIELD	SHIELD	SHIELD	SHIELD	

DUAL ANALOG INPUT CARD LABEL

(Contact your Walchem Distributor or the Factory)



TB1 (for Sensor 1) or TB2 (for optional Sensor 2)

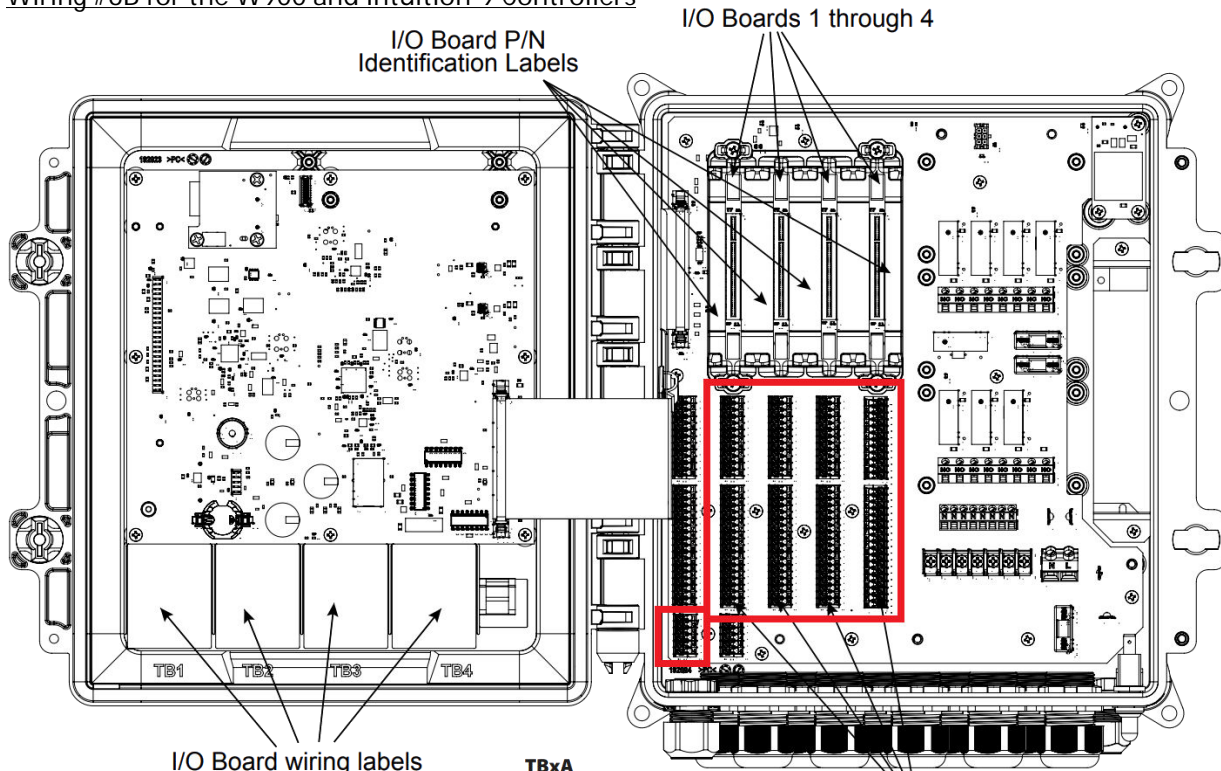


TB1 (for Sensor 1) or TB2 (for optional Sensor 2)



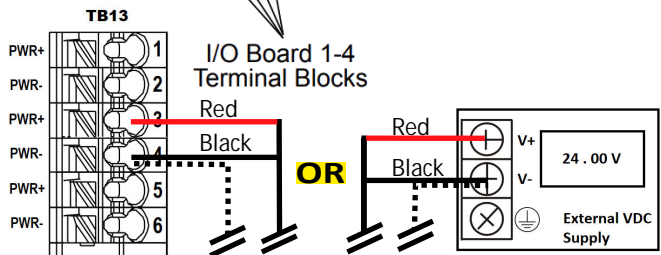
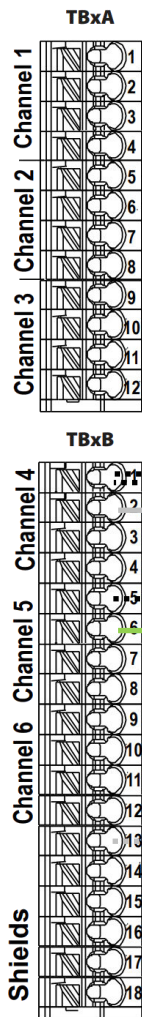


Wiring #6B for the W900 and Intuition-9 Controllers

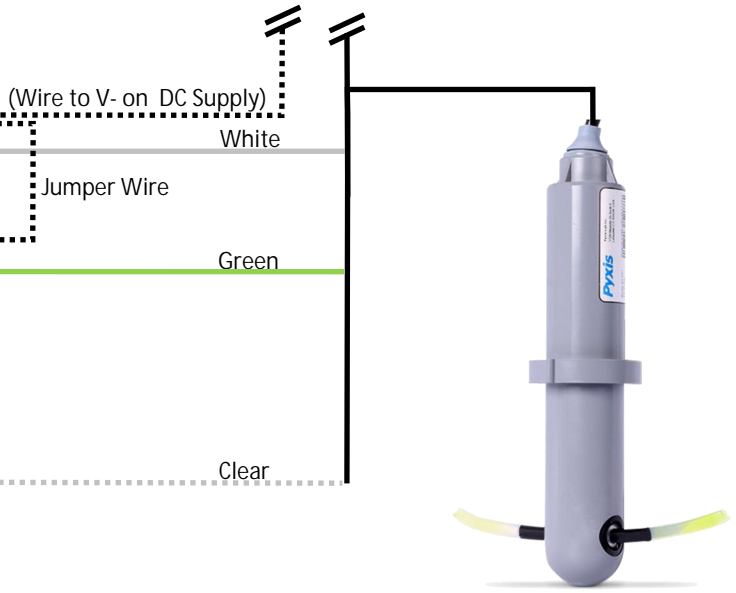


P/N 191914		4-20 mA INPUT (6)			
		TBxA - INPUTS 1-3		TBxB - INPUTS 4-6	
TB	Ch	2 Wire Loop	2 Wire Pwr	3 Wire	4 Wire
1	1,4		XMTR-		XMTR-
2			XMTR+	XMTR+	XMTR+
3		+24V		+24V	+24V
4				COM(-)	24V(-)
5	2,5		XMTR-		XMTR-
6			XMTR+	XMTR+	XMTR+
7		+24V		+24V	+24V
8				COM(-)	24V(-)
9	3,6		XMTR-		XMTR-
10			XMTR+	XMTR+	XMTR+
11		+24V		+24V	+24V
12				COM(-)	24V(-)
13-18					

* Refer to the I/O board wiring label for the correct wiring and channel locations. Channel locations differ across the 191912, 191913, 191914, and 191918 input cards.



**If installed with 24VDC Aux Power

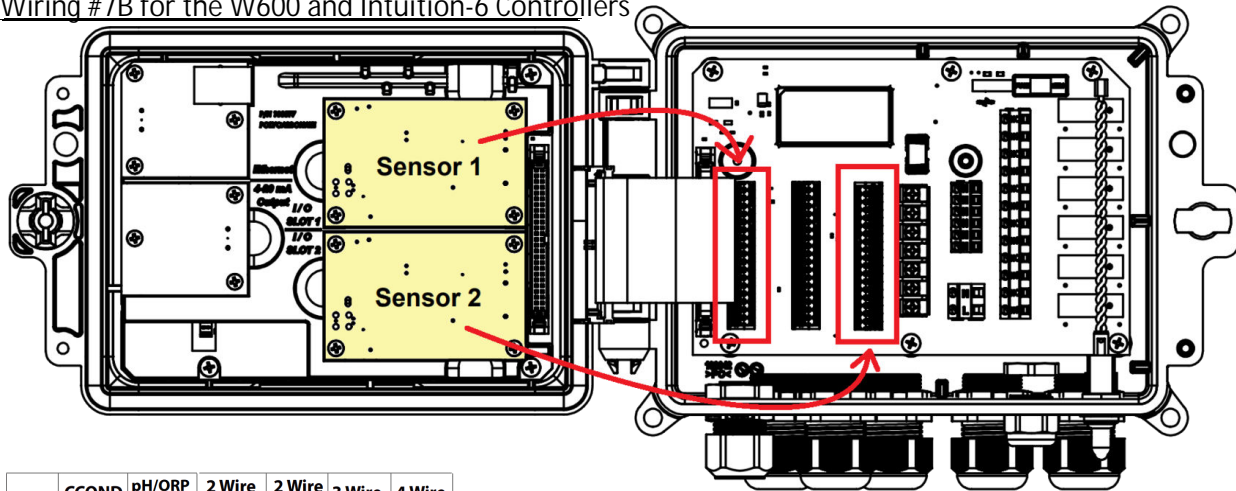




Wiring Diagram #7B, Powered Externally

Wire Color	Designation	Terminal Wiring in Controller
Red	24V +	+24V on External Power Supply
Black	24V Power ground	-24V on External Power Supply
White	(Not Used)	None, leave disconnected
Green	4-20mA +	XMTR+ / Input -
Blue	RS-485 A	None, leave disconnected
Yellow	RS-485 B	None, leave disconnected
Clear	Shield	Shield / Ground Stud

Wiring #7B for the W600 and Intuition-6 Controllers

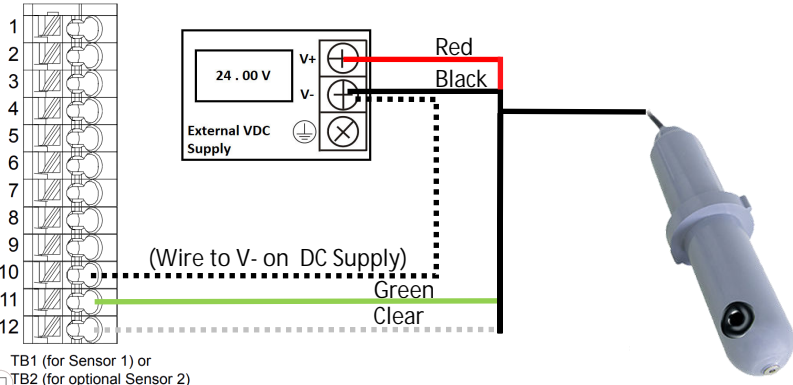


	CCOND	pH/ORP DIS	2 Wire Loop	2 Wire Pwr'd	3 Wire	4 Wire
1	TEMP-	TEMP-				
2	TEMP+	TEMP+				
3	SHIELD	IN-				
4	RCV	IN+				
5		-5V				
6	XMT	+5V				
8					COM(-) 24V(-)	
9			+24V		+24V	+24V
10				XMTR-		XMTR-
11				XMTR-	XMTR+	XMTR+
12			SHIELD or use DI SHIELD (TB3 7-12)			

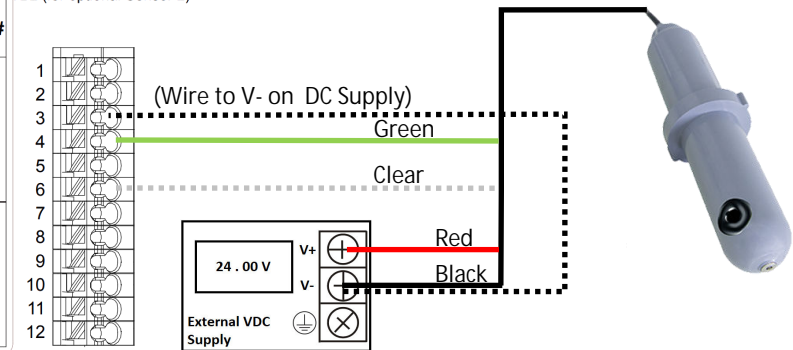
COMBINATION SENSOR/ANALOG CARD LABEL

TB Pin#	Type of Transmitter				AI#
	2 Wire Loop	2 Wire Powered	3 Wire	4 Wire	
1	+24V		+24V	+24V	1
2				24V(-)	
3		XMTR-		XMTR-	
4	XMTR-	XMTR+	XMTR+	XMTR+	
5			COM(-)		
6	SHIELD	SHIELD	SHIELD	SHIELD	
7	+24V		+24V	+24V	2
8				24V(-)	
9		XMTR-		XMTR-	
10	XMTR-	XMTR+	XMTR+	XMTR+	
11			COM(-)		
12	SHIELD	SHIELD	SHIELD	SHIELD	

DUAL ANALOG INPUT CARD LABEL



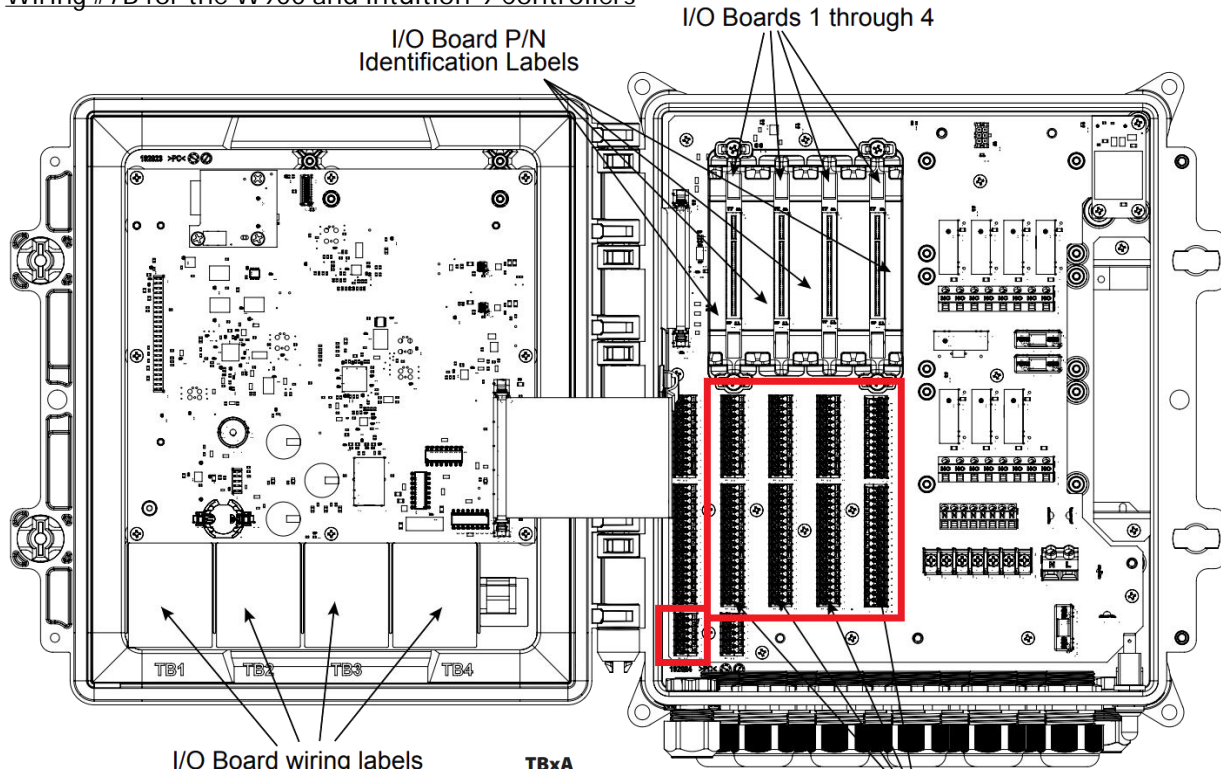
TB1 (for Sensor 1) or TB2 (for optional Sensor 2)



TB1 (for Sensor 1) or TB2 (for optional Sensor 2)



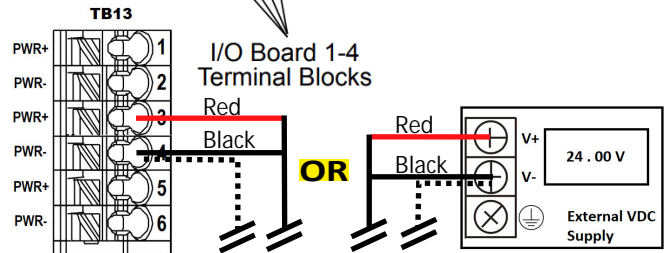
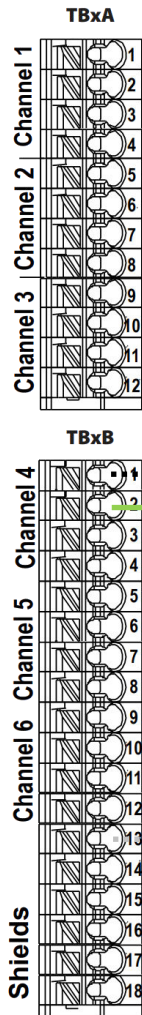
Wiring #7B for the W900 and Intuition-9 Controllers



I/O Board wiring labels

P/N 191914		4-20 mA INPUT (6)			
		TBxA - INPUTS 1-3		TBxB - INPUTS 4-6	
TB	Ch	2 Wire Loop	2 Wire Pwr	3 Wire	4 Wire
1	1,4		XMTR-		XMTR-
2		XMTR-	XMTR+	XMTR+	XMTR+
3		+24V		+24V	+24V
4				COM(-)	24V(-)
5	2,5		XMTR-		XMTR-
6		XMTR-	XMTR+	XMTR+	XMTR+
7		+24V		+24V	+24V
8				COM(-)	24V(-)
9	3,6		XMTR-		XMTR-
10		XMTR-	XMTR+	XMTR+	XMTR+
11		+24V		+24V	+24V
12				COM(-)	24V(-)
13-18					

* Refer to the I/O board wiring label for the correct wiring and channel locations. Channel locations differ across the 191912, 191913, 191914, and 191918 input cards.



**If installed with 24VDC Aux Power

