















Wiring Guide Conductivity Sensors

N133-57 R2

Contents

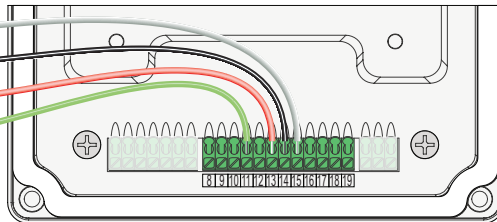
Page

AS-series + AM-2252		3
AS-series + AM-2250		4
AS-series + AM-2250TX		5
AM-ES1 + AM-2251		6
AS-TX and AM-ES1-TX + AM-2300		7
AS-TX and AM-ES1-TX + PLC		8
AS-TX and AM-ES1-TX + RS485		9
ES5 and AM-ES1-TX + AM-2300		10
ES5 and AM-ES1-TX + AM-2252		11
ES5 and AM-ES1-TX + PLC		8
AS-series + Shark-120		12
AS-series + Shark-TX		12

AS-series Probes with AM-2252

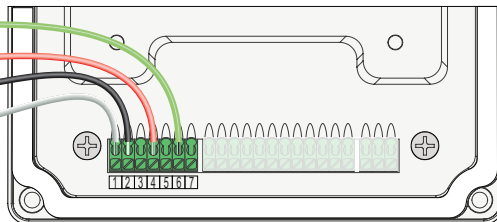
ASG001P1
ASM01P1
ASM1P1
ASG10P1
ASG50P1

Conductivity (15)
Conductivity (14)
Temperature (13)
Temperature (11)



AM-2252 Controller. Input Channel 1

Temperature (6)
Temperature (4)
Conductivity (2)
Conductivity (1)

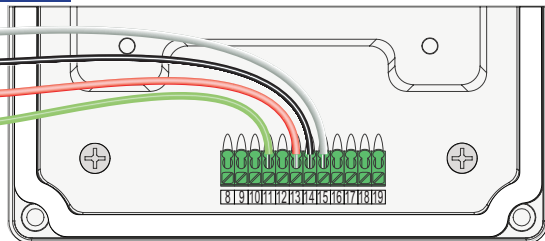


AM-2252 Controller. Input Channel 2

AS-series Probes with AM-2250

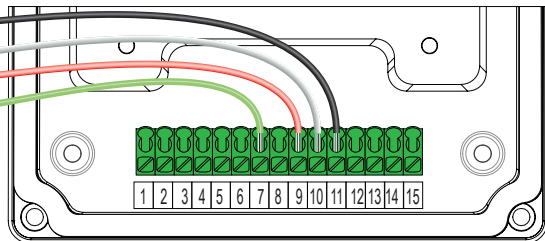
ASG001P1
ASM01P1
ASM1P1
ASG10P1
ASG50P1

Conductivity (15)
Conductivity (14)
Temperature (13)
Temperature (11)



AM-2250 Controller. Sold after 2021

Conductivity (11)
Conductivity (10)
Temperature (9)
Temperature (7)

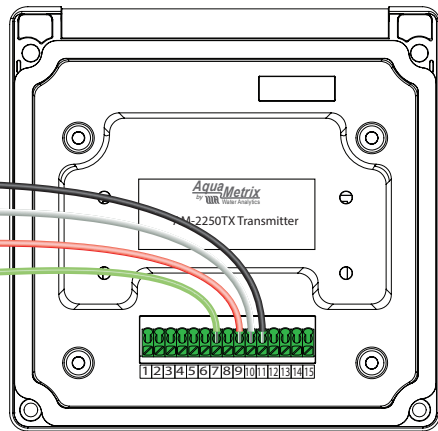


AM-2250 Controller. Sold before 2021

AS-series Probes with AM-2250TX

ASG001P1
ASM01P1
ASM1P1
ASG10P1
ASG50P1

Conductivity (11)
Conductivity (10)
Temperature (9)
Temperature (7)

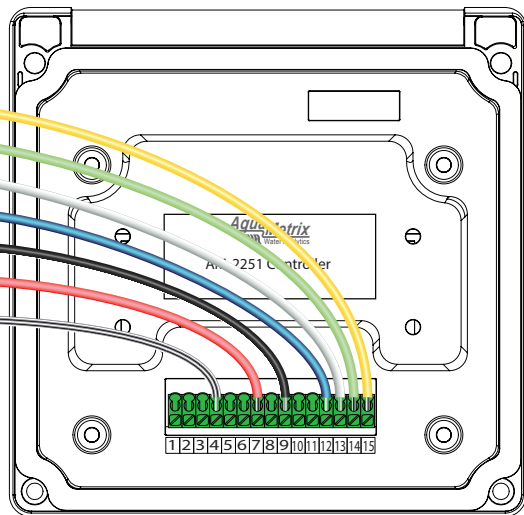


AM-2250 TX Transmitter

AM-ES1 probe with AM-2251

AM-ES1

- Toroid Sense - (15)
- Toroid Sense + (14)
- Toroid Drive - (13)
- Toroid Drive + (12)
- Temperature (9)
- GND (7)
- Shield (4)



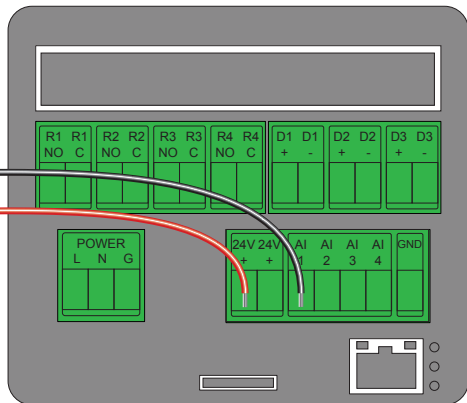
NOTE: AM-ES1 sensor is very different from AM-ES1-TX. Don't use this wiring for AM-ES1-TX sensor.

AM-2251 Controller

AS-TX and AM-ES1-TX probes with AM-2300

ASM01TX
ASM1TX
ASG10TX

Analog IN (AI1) —
24VDC (24V) —
RS-485 A (NC) —
RS-485 B (NC) —
RS-485 GND (NC) —



AM-2300 Controller

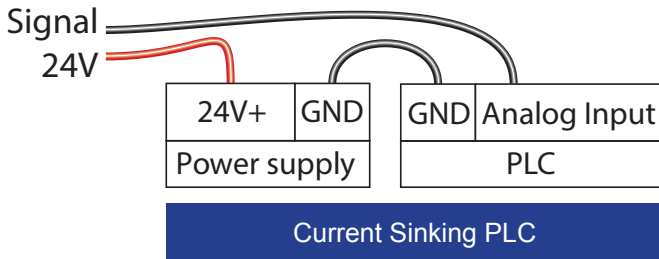
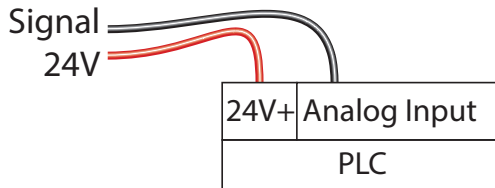
NOTE: 4 or 8 sensors can be connected to AM-2300 (depending on configuration).

AS-TX, AM-ES1-TX, and ES5 Probes with PLC's

ASM01TX
ASM1TX
ASG10TX

AM-ES1-TX

ES5C1
ES5C2
ES5C3



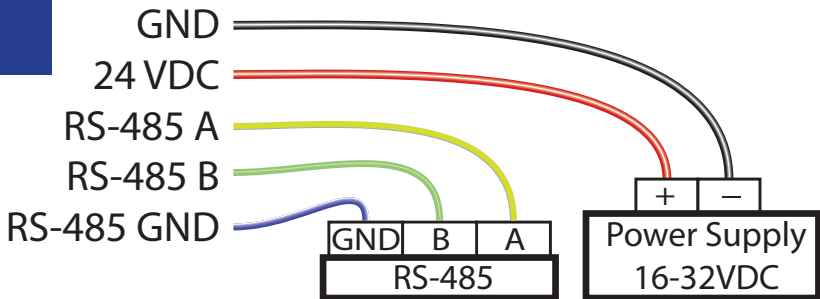
AS-TX and AM-ES1-TX probes digital wiring (RS-485)

ASM01TX

ASM1TX

ASG10TX

AM-ES1-TX



Refer to the operation manual for a list of CLI commands.

NOTE: RS-485 isolator may be required to avoid ground loop.

ES5 Probes with AM-2300

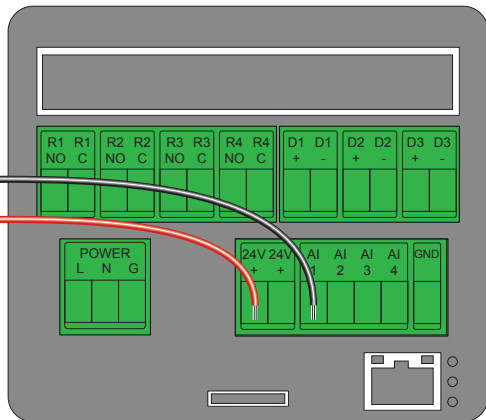
ES5C1

ES5C2

ES5C3

AM-ES1-TX

Analog IN (AI1)
24VDC (24V)



NOTE: up to 4 or 8 sensors can be connected to AM-2300 (depending on configuration).

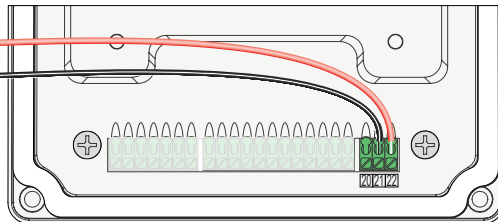
AM-2300 Controller

ES5 and AM-ES1-TX Probes with AM-2252

ES5C1
ES5C2
ES5C3

AM-ES1-TX

24VDC (22)
Analog IN (21)

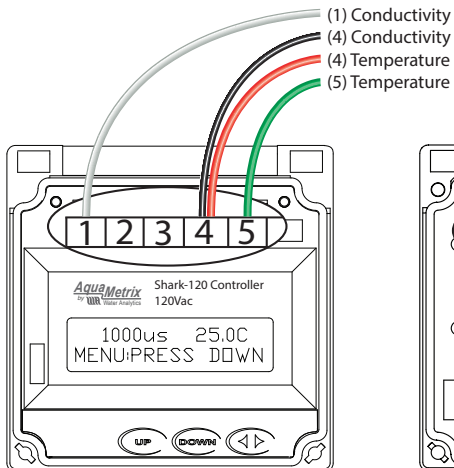


AM-2252 Controller

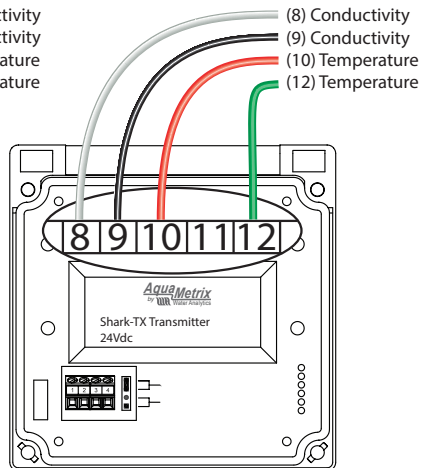
NOTE: while connecting AS-TX series probes is technically possible as shown here, the raw AS-series probes would be a better option when used with AM-2252 controller.

AS-series probes with Shark & Shark-TX


ASG001P1
ASM01P1
ASM1P1
ASG10P1
ASG50P1



Shark-120 Controller



Shark-TX Transmitter

Aqua ***Metrix***
by  **Water Analytics**

www.AquaMetrix.com

978-749-9949