



Wiring Guide Conductivity Sensors

N133-57 R3

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12

AS/AM-series Probes with AM-2252

ASG001

ASM01

ASM1

ASG10

AM12

AM34

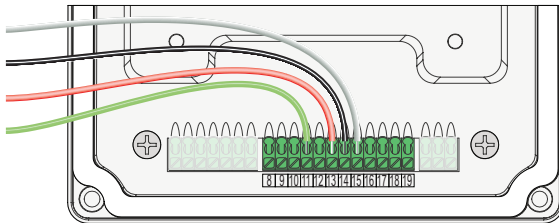
AMB34

Conductivity (15)

Conductivity (14)

Temperature (13)

Temperature (11)



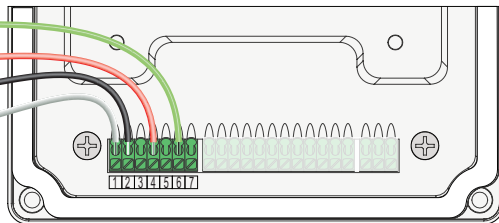
AM-2252 Controller. Input Channel 1

Temperature (6)

Temperature (4)

Conductivity (2)

Conductivity (1)



AM-2252 Controller. Input Channel 2

NOTE: Connecting the shield wire is not required for 2250-series controllers

AS/AM-series Probes with AM-2250

ASG001

ASM01

ASM1

ASG10

AM12

AM34

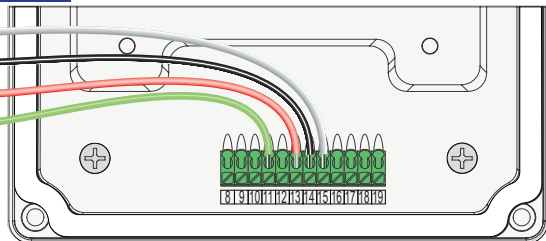
AMB34

Conductivity (15)

Conductivity (14)

Temperature (13)

Temperature (11)



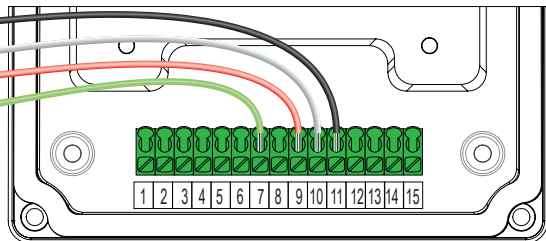
AM-2250 Controller. Sold after 2021

Conductivity (11)

Conductivity (10)

Temperature (9)

Temperature (7)



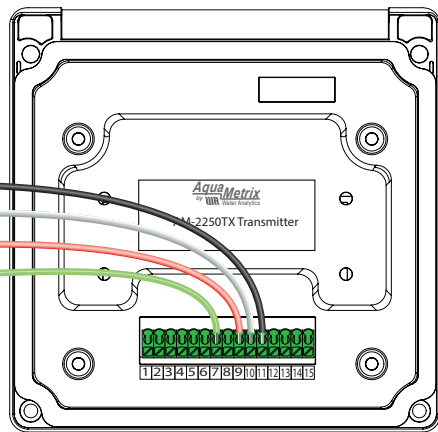
AM-2250 Controller. Sold before 2021

NOTE: Connecting the shield wire is not required for 2250-series controllers

AS/AM-series Probes with AM-2250TX

ASG001
ASM01
ASM1
ASG10
AM12
AM34
AMB34

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



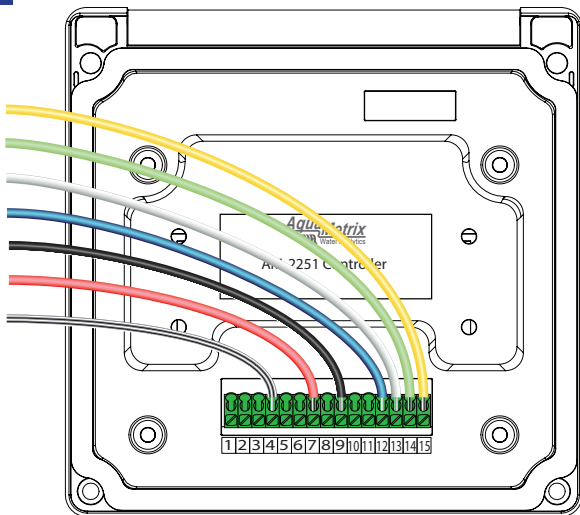
AM-2250 TX Transmitter

NOTE: Connecting the shield wire is not required for 2250-series controllers

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

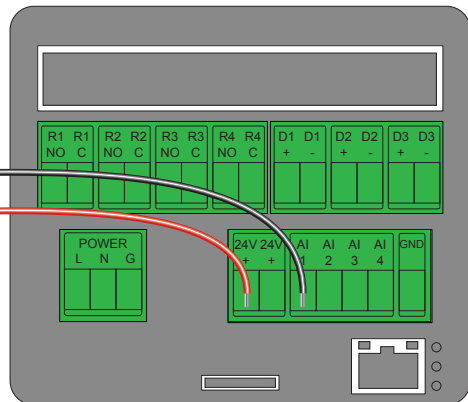
Analog IN (AI1)

24VDC (24V)

RS-485 A (NC)

RS-485 B (NC)

RS-485 GND (NC)



AM-2300 Controller

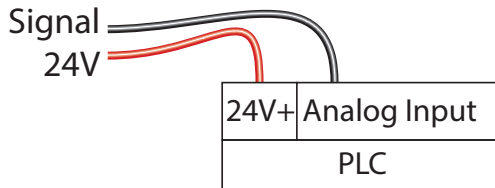
NOTE: 4 or 8 sensors can be connected to AM-2300 (depending on configuration).

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

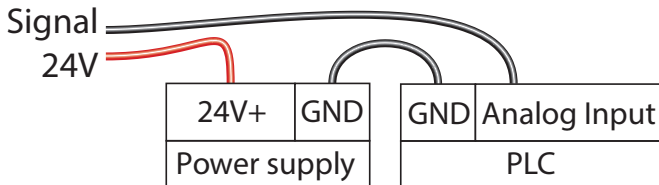
ASM01TX
ASM1TX
ASG10TX

AM-ES1-TX

ES5C1
ES5C2
ES5C3



Current Sourcing PLC



Current Sinking PLC

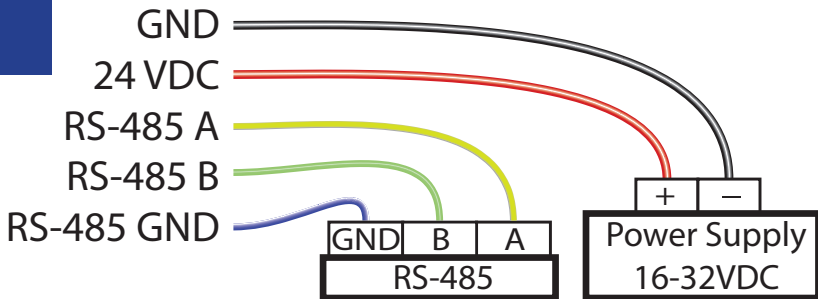
AS-TX and AM-ES1-TX probes digital wiring (RS-485)

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

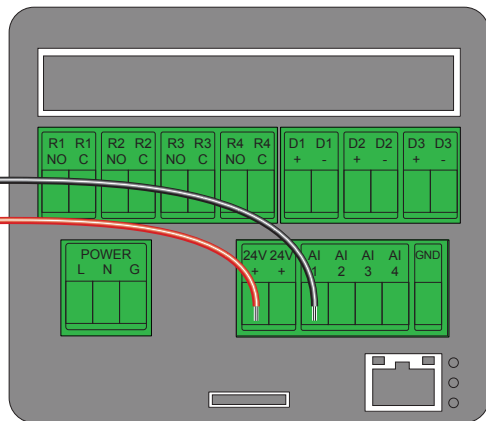
ES5C2

ES5C3

AM-ES1-TX

Analog IN (AI1)

24VDC (24V)



NOTE: up to 4 or 8 sensors can be connected to AM-2300 Controller depending on IO cards configuration.

AM-2300 Controller

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

ES5C1

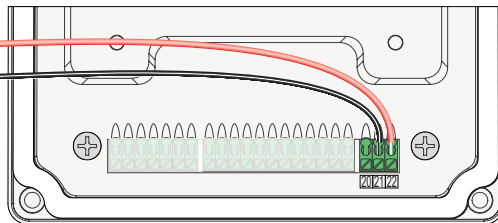
ES5C2

ES5C3

AM-ES1-TX

24VDC (22)

Analog IN (21)

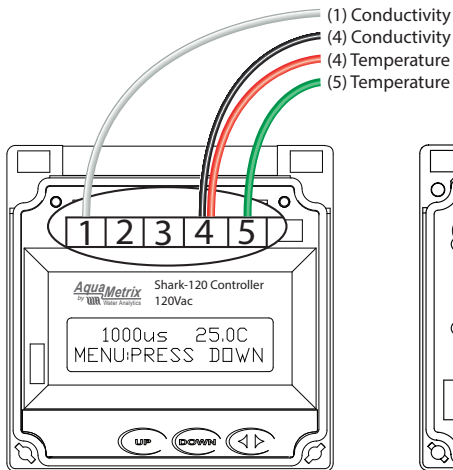


AM-2252 Controller

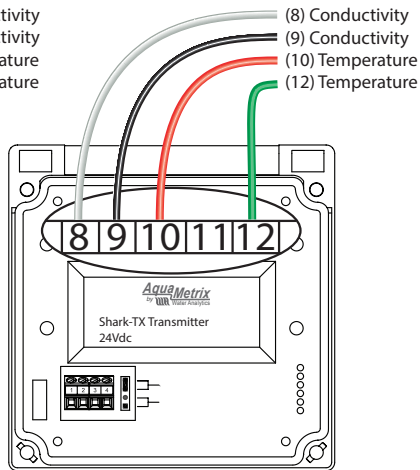
NOTE: while connecting AS-TX series probes is technically possible as shown here, the raw AS-series probes would be a better option when used with AM-2252 controller.

AS-series probes with Shark & Shark-TX

ASG001P1
ASM01P1
ASM1P1
ASG10P1
ASG50P1



Shark-120 Controller



Shark-TX Transmitter



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