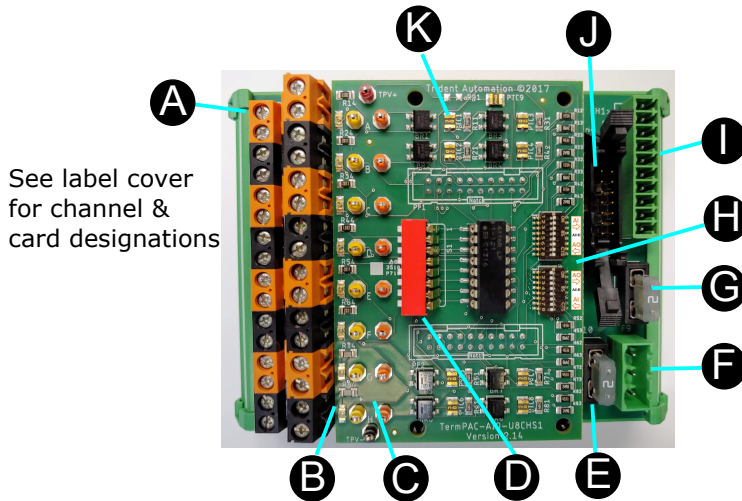




## Industrial Termination System Field Guide

Model #AIO-U8CH. For 4-20mA 2 & 4 wire analog ins & analog outs



See label cover  
for channel &  
card designations

- A - Field Wiring (8 Channels)
- B - Channel power LEDs
- C - mA meter test points
- D - Open channel load switch \*\*
- E - Fuse for power connector F
- F - Power and shield connector \*\*
- G - Fuse for DCS connector I or J
- H - Card type (Analog in or out) \*\*
- I - Connector to individual wires to DCS
- J - Connector for prebuilt cable to DCS
- K - Self resetting solid state fuses

### USING THE TEST POINTS: (C)

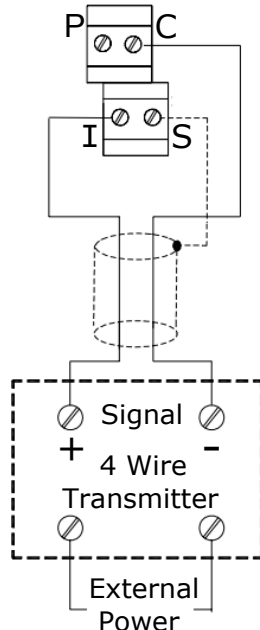
Use grabber meter/HART leads provided in each set of cabinets to clip onto the colored test points. A milliAmp meter can be connected across yellow & orange without interrupting the loop. A HART handheld can be connected between orange and either red + or black - depending on loop configuration. It is acceptable to test several HART connections to establish communication.

### Wiring Examples

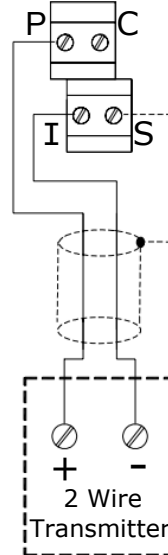
Terminals for  
each channel

P - 24VDC 100mA  
C - Power Common  
I - Input/Output  
S - Shield

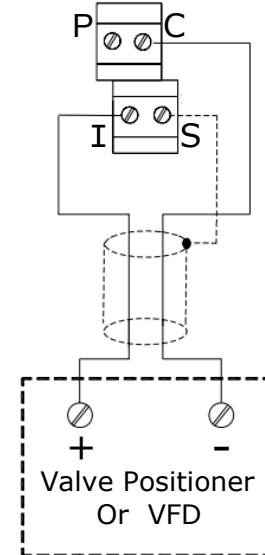
4-Wire  
4-20mA In  
Field Powered



2-Wire  
4-20mA In  
Loop Powered



2-Wire  
4-20mA Out  
DCS Powered  
Or APACS SAM Inputs



\*\*

For systems that display diagnostic errors on open unused channels, follow the notes below.

H) To set termination for analog input set top switch to ON (right) and bottom switches to OFF (left)

H) To set termination for analog output set top switch to OFF (left) and bottom switches to ON (right)

D) To stop diagnostic errors on unused channels turn the appropriate channel # switch to ON (up)

For systems that do not need this feature, all 3 banks of DIP switches can be set to off for analog in or out.

F) 24VDC power connector. Lower pin is shield, center is 24VDC - & upper pin is 24VDC +

If a short or current > 100mA from the P terminal to C or I occurs, the solid state fuse will open and stay open until the short is removed.

Call Trident Automation at 920-759-7477 for 24/7 support. Updated 12-10-2018