

## ERT-A2 - Add 2<sup>nd</sup> Milspec Analog

### PURPOSE

The purpose of this document is show how to add a second Milspec analog input to an ERT-A2.

### MATERIALS USED

Elpro Part # "CBLL002420" - 4 pin analog Milspec socket and wiring.

1 x ERT-A2

Side cutters, soldering Iron.

### Procedure

Picture of the connector assembly shows the standard 4 Pin Milspec socket with wiring and header plug (Elpro Part # CBLL002420).

First you need to remove the wires from the small plug-in header. Easiest way is to just cut the wires as close as possible to the header, then strip some of the insulation (5mm) back and then tin the wires with a soldering iron.



Remove the River Digital (Shaft Encoder) Milspec connector from the ERT-A2 cannister. Taking care to save all the screws, washers, cap, and gasket for re-insertion with the analog socket.

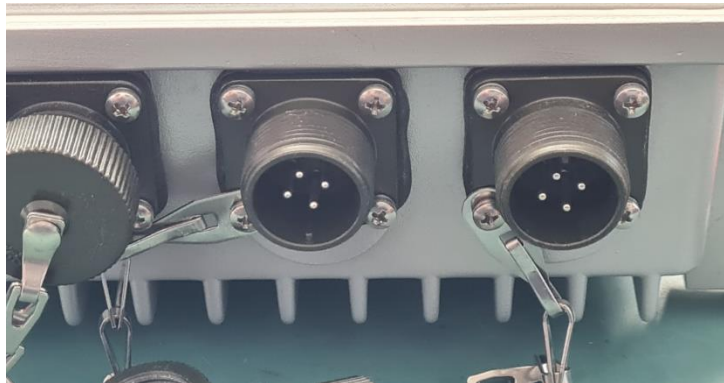


Push the new Analog socket through the same hole and then plug the wires into the analog terminals as per below picture.



Mil Spec	Wire Colour	Terminals
C	Red	+24V LOOP
A	Brown	AIN2 +
B	Green	AIN2 -
D	Black	GND

You should now have a second analog Milspec connector fitted to the ERT-A2 and all wired in.



```

AI2
Mode 4-20mA
ID 5640
Format U-2
Scale 20000
Offset 0
Sens 1(10mm)
Display 10.00mm
Value 0mm
    
```

You will need to setup basic parameters, for the second analog, select "I/O Setup", then select the "Analog 2" and setup ID and appropriate scaling, etc.

**Amendment Register:**

Issue No.	Date	Details of Amendment
1.0	13-03-2023	Initial draft