

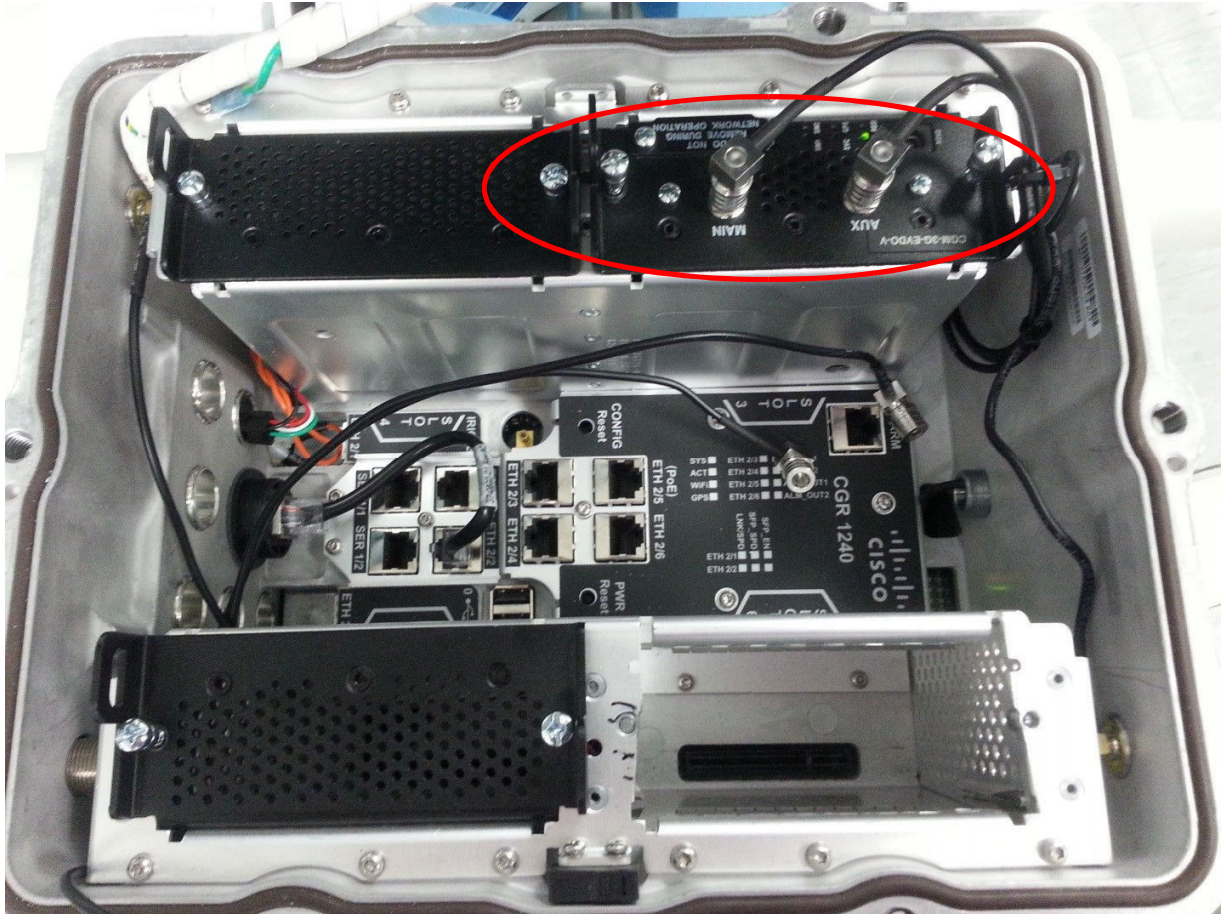


Itron OpenWay® Riva™ ACT Module

USER MANUAL

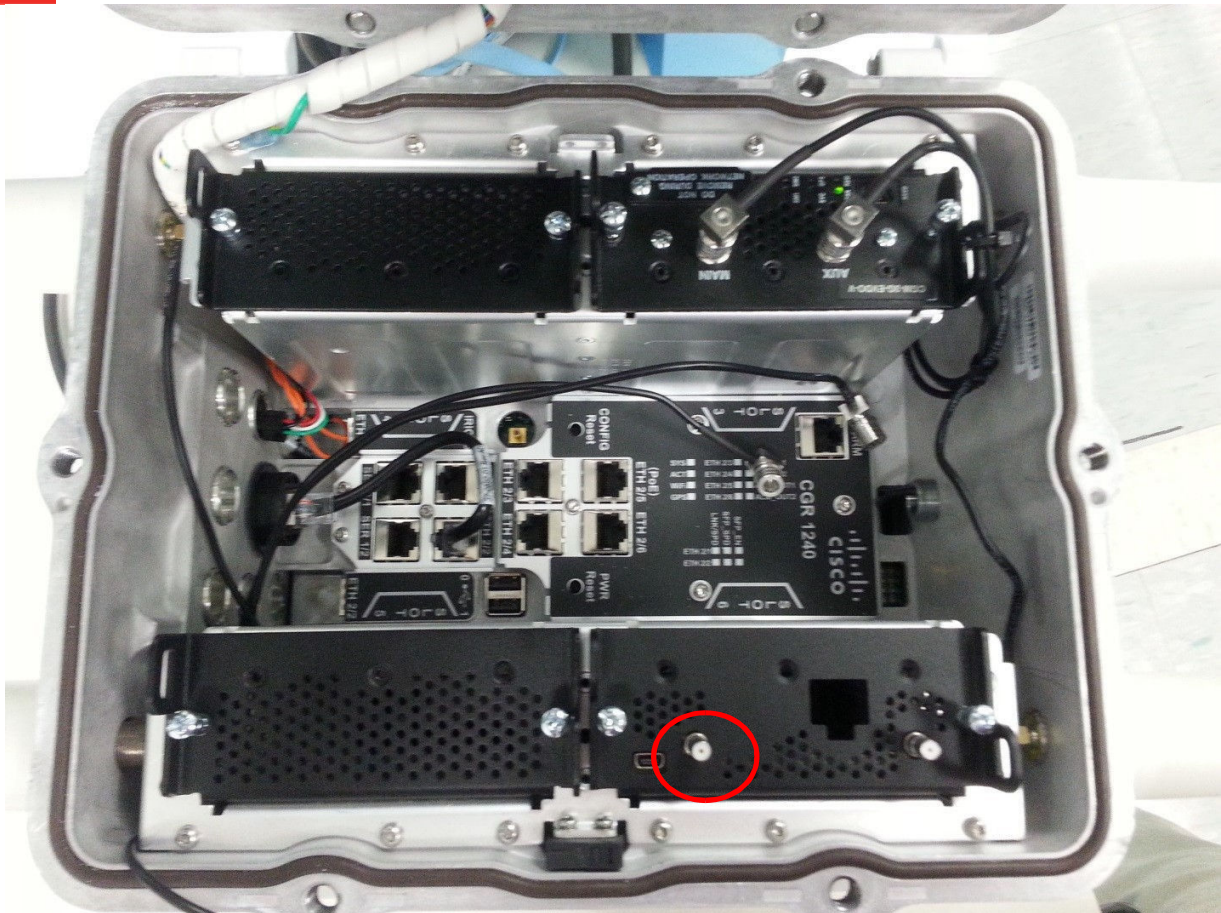
Note: To maintain the compliance with radiation protection, place the product at least 20 cm from nearby persons.

The operation of the OpenWay® Riva™ ACT Module assumes you start with a CGR1240 as shipped from Cisco. The CGR1240 will look like the picture below assuming there is a cellular backhaul module installed in Slot 3:

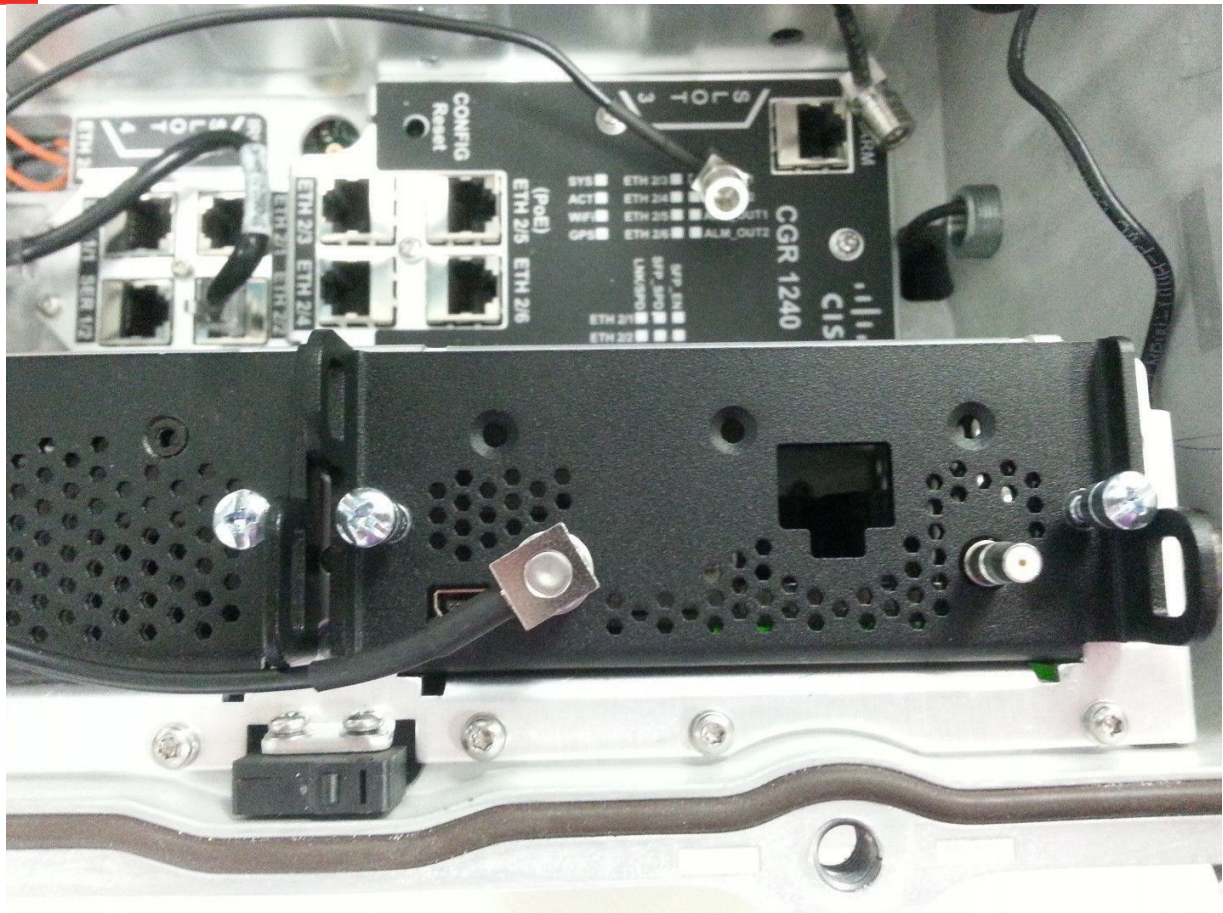


1.0 Installing the OpenWay® Riva™ ACT Module

The OpenWay® Riva™ ACT Module will then be inserted into Slot 6 as shown in the picture below:



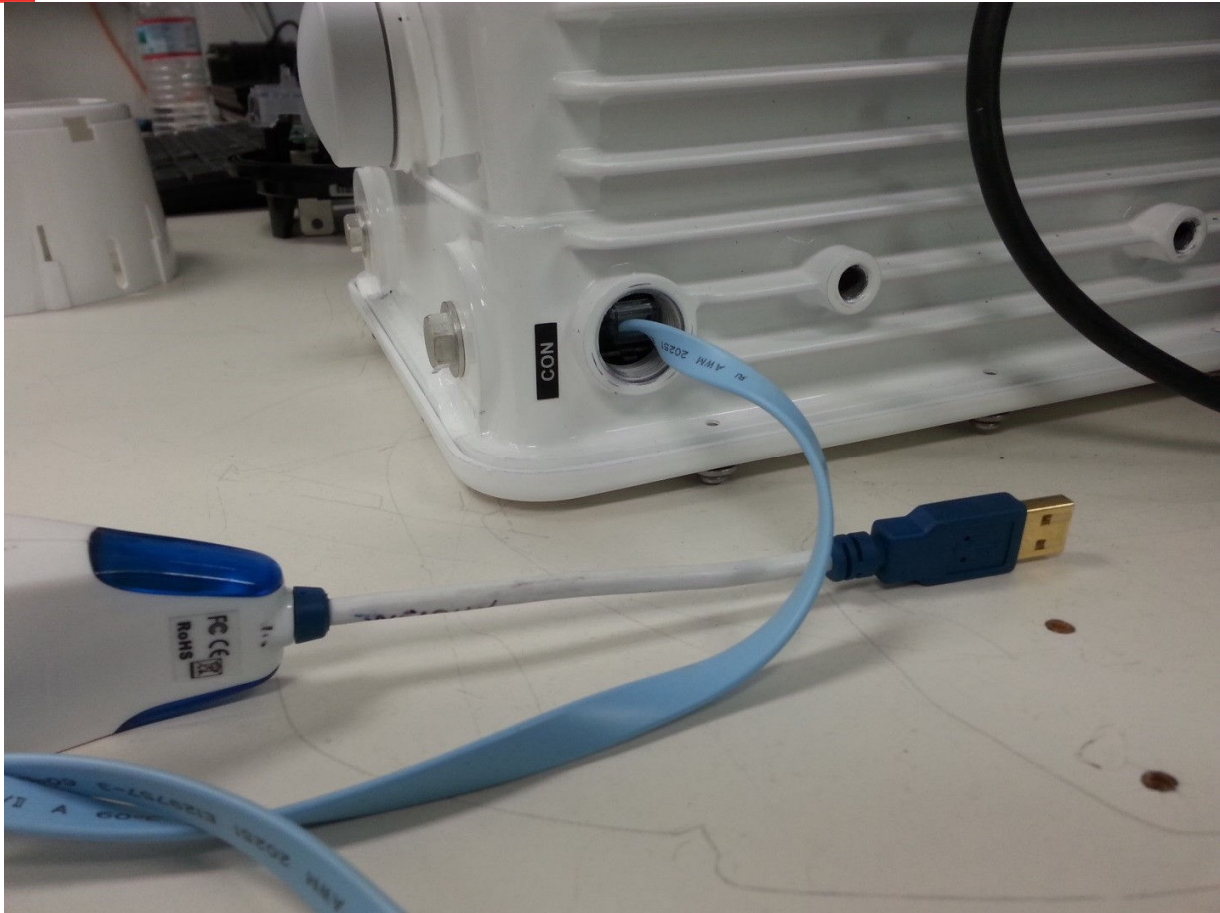
1.1 Connect the QMA cable to the connector on the OpenWay® Riva™ ACT Module that is closest to the center of the CGR.



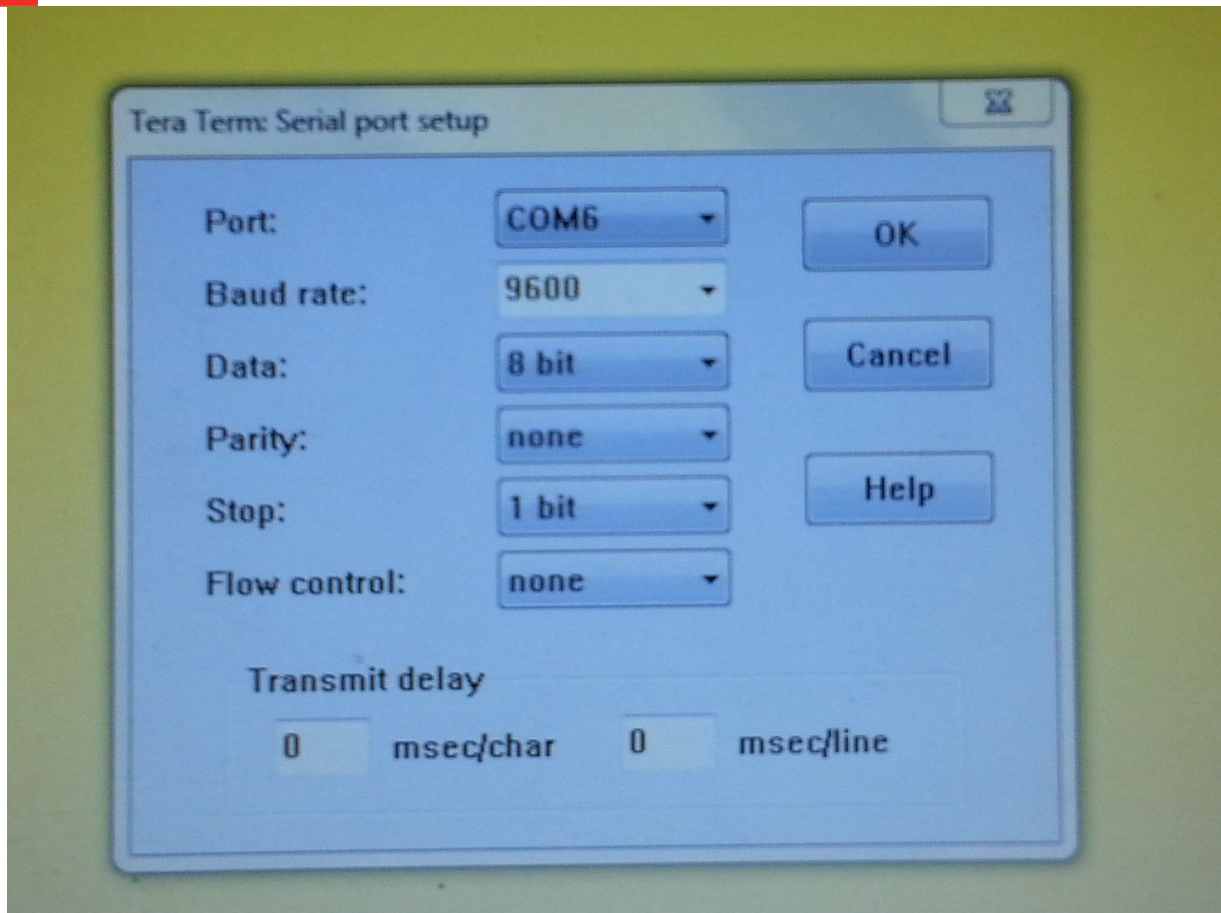
2.0 Configuring the CGR

Now plug in the CGR1240 and wait for about 20 minutes while the CGR boots up and configures itself.

2.1 Connect the USB cable to a PC using the RJ45 Ethernet to DB9 cable provided using a DB9 to USB adaptor as shown below:



2.2 Open Tera Term or a comparable software terminal emulator program. Set the baud rate on the PC to 9600 baud as shown below:



2.3 Type the following commands into Tera Term:

```
show_module enable  
#hw-module_poweroff_6 (powers off Slot 6)  
#no_hw-module_poweroff_6 (powers on Slot 6)
```

```
COM6:9600baud - iSOM Starterware Test VT
File Edit Setup Control Window Help

CGR1000>
CGR1000>
CGR1000>show module
Mod  Ports  Module-Type                      Model                      Status
---  ---
1    2      CGR1000 Supervisor Module        CGR1240/K9                active
2    9      CGR1000 Onboard Interface Module CGR1000                    ok

Mod  Hw      Serial-Num                      Last reload reason
---  ---
1    1.0     JAF1739AFPK
2    N/A     NA

CGR1000>
*Jul 14 14:24:21.899: %CGR1K_SYS-5-MODULE_INSERTED: Module inserted in slot 6.
*Jul 14 14:24:22.499: %CGR1K_SYS-5-MODULE_POWER_UP: Module in slot 6 is powered up.show mo
dule
Mod  Ports  Module-Type                      Model                      Status
---  ---
1    2      CGR1000 Supervisor Module        CGR1240/K9                active
2    9      CGR1000 Onboard Interface Module CGR1000                    ok
6    0      CGR1000 Third Party Module
Mod  Hw      Serial-Num                      Last reload reason
---  ---
1    1.0     JAF1739AFPK
2    N/A     NA
6    N/A     NA

CGR1000>enable
CGR1000#
*Jul 14 14:25:56.507: %CGR1K_ENU-2-TEMPERATURE_MAJOR: Warning: CGR Module 6 temperature -5
1C exceeds major threshold -25C. System/Module may not work properly at this temperature.
Please resolve immediately to prevent system damage.
CGR1000#configure term
Enter configuration commands, one per line. End with CNTL/Z.
CGR1000(config)#configure terminal
^
% Invalid input detected at '^' marker.

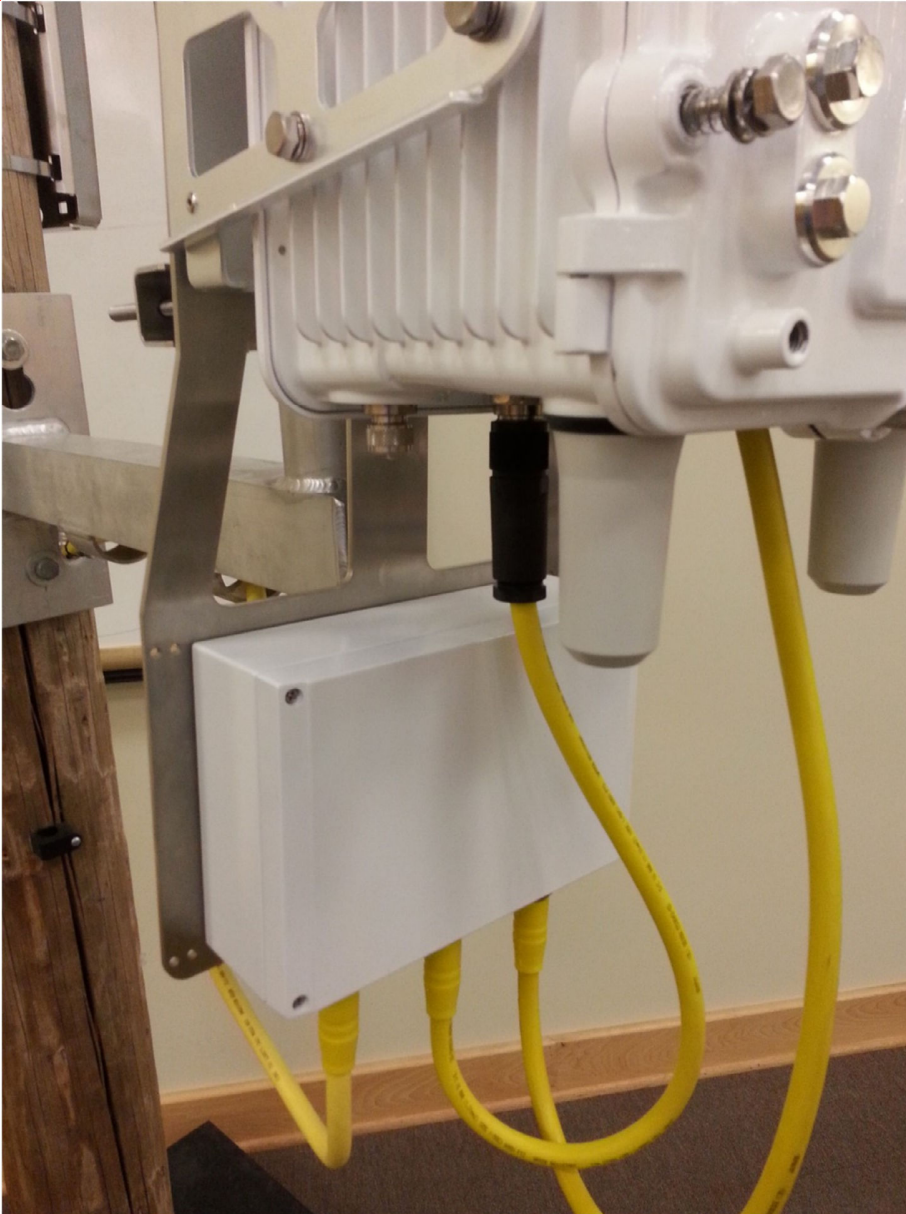
CGR1000(config)#hw-module poweroff 6
CGR1000(config)#
*Jul 14 14:27:32.851: %CGR1K_SYS-5-MODULE_POWER_DOWN: Module in slot 6 is powered down.
CGR1000(config)#no hw-module poweroff 6
*Jul 14 14:28:16.759: %CGR1K_SYS-5-MODULE_POWER_UP: Module in slot 6 is powered up.
CGR1000(config)#
```

2.4 CGR with OpenWay® Riva™ ACT Module is now ready to accept instructions for the application code to run.

3.0 Configuring the ACT PLC Coupler



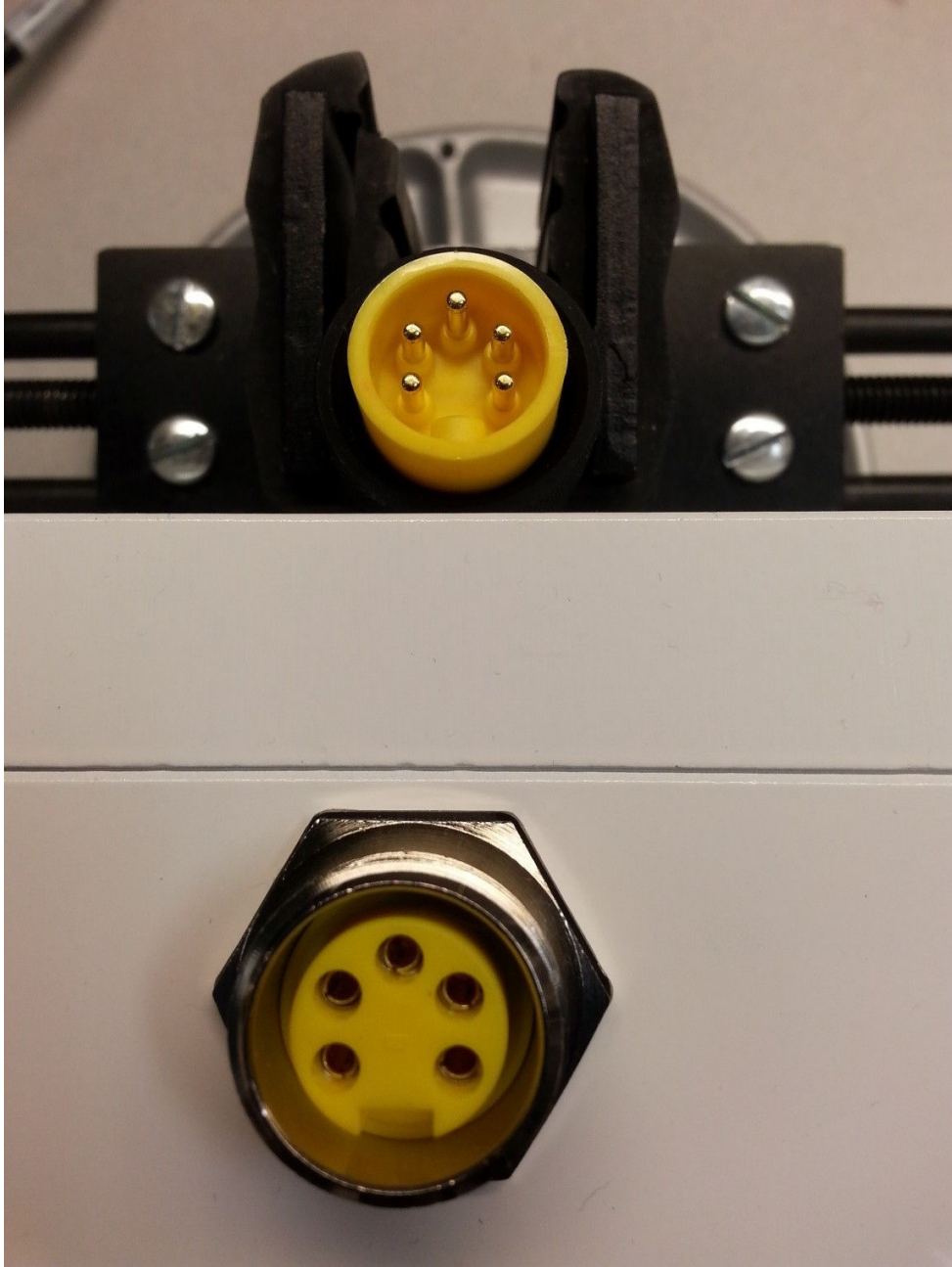
ACT PLC Coupler should be attached to the adaptor plate as shown below:



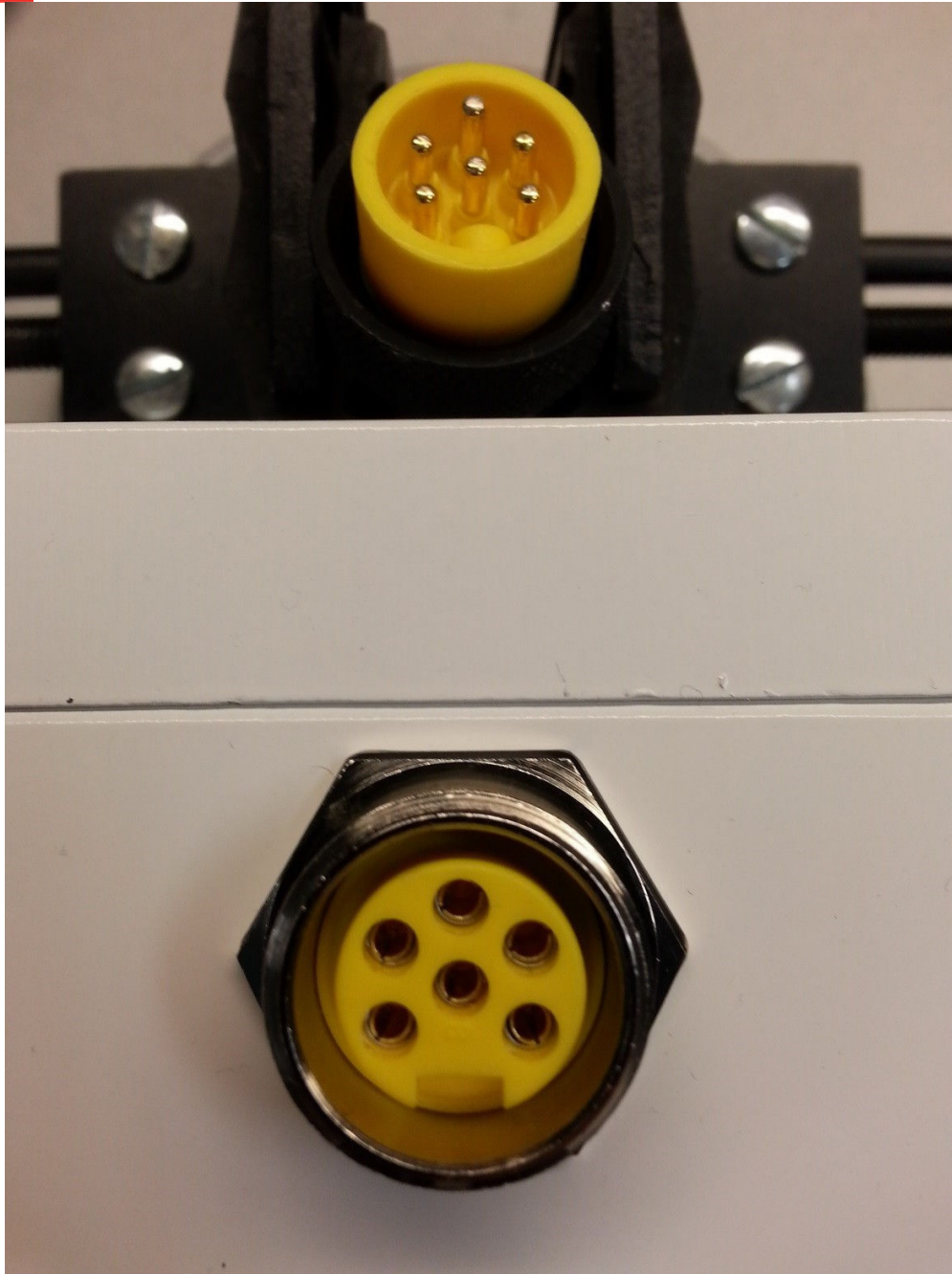
3.1 Connect one end of the AC Input Cable 010415-06 as shown below:



3.2 Connect one end of the AC Output cable 010415-08 as shown below:



3.3 Connect one end of the PLC Cable 010415-07 as shown below:



3.4 Connect the other end of the AC Output cable 010415-08 to the CGR1240 AC Input bulkhead connector as shown below:



3.5 Connect the other end of the PLC Cable 010415-07 to the CGR1240 PLC Coupler bulkhead connector as shown below:



3.6 The RIVA ACT System is now ready to function properly.