

The Audemat FMB80 is set to a UDP or serial connection using the UECP format. To simplify troubleshooting CSRDS send metadata to encoders using the encoders ASCII format. As such we need to configure the FMB80 for ASCII commands and provide CSRDS the rights to send metadata.

To do this you will need to Telnet into the encoder as these settings are not configurable using the FMB80 web interface. When completed, the settings are saved in the firmware so they never have to be re-set even after a power outage.

For IP Communication

```
UDPx.PORT=<PORT> (x:1-5 )
UDPx.PROTOCOL= ASCII:UECP:UECP2:USEP
UDPx.USERLEVEL=ROOT
```

i.e.: set a UDP port (5001) for ASCII communication:

```
UDP1.PORT=5001
The encoder returns +
```

```
UDP1.PROTOCOL=ASCII
The encoder returns +
```

```
UDP1.USERLEVEL=ROOT
The encoder returns +
```

For Serial Communication

Information coming from automation software can directly be received in ASCII text format on the RS232 encoder communication port.

The encoder communication port properties must be configured with the following commands.

```
COMx.PROTOCOL=ASCII (x= 1 or 2 depending on the ENCODER communication port selected)
COMx.SETTINGS=75-115200,N/O/E,5-8,1-2 to set the Encoder communication port settings (Baud rate,parity,data bit,stop bit)
```

i.e.: set COM1 port for ASCII communication at 9600 bps:

```
COM1.PROTOCOL= ASCII
The encoder returns +
COM1.SETTINGS=9600,n,8,1
```

To configure CSRDS for the FMB80

1. Select Properties from the Tools Menu and click the RDS\TNDSD Tab
2. Select FMB80/50 as the encoder Type
3. For Serial, select the serial port and set the serial port to the same settings you defined in the Telnet session
4. For IP, enter the IP to the encoder and set the port you defined in the Telnet session
5. CSRDS know the FMB80 is UDP and will send via UDP so you do not need to select the UDP option
6. If desired, select the Use Dynamic PS option so your metadata shows on older and low end RDS receivers.
7. If you have the FMB80 firmware update and configured the FMB80 for RT+ for RT+ you can select RT+ to YES
8. Click OK to save the settings and return to the main menu
9. Click F5-Start to put CSRDS back on-line

Once set, CSRDS will send the FMB80 (audemate) ASCII commands to the FMB80.