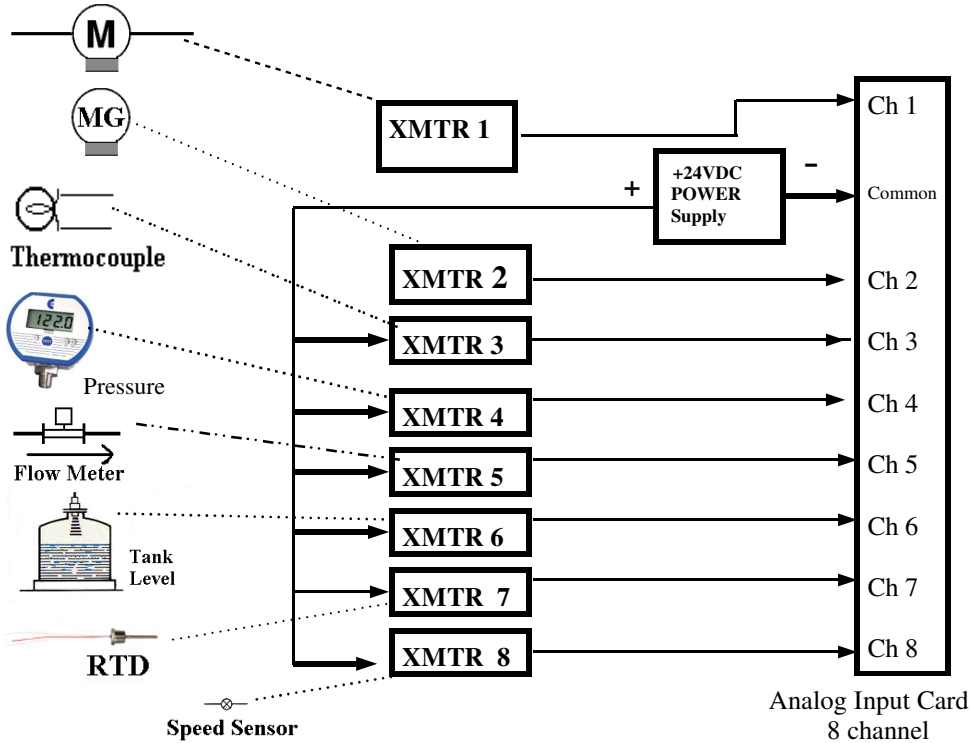


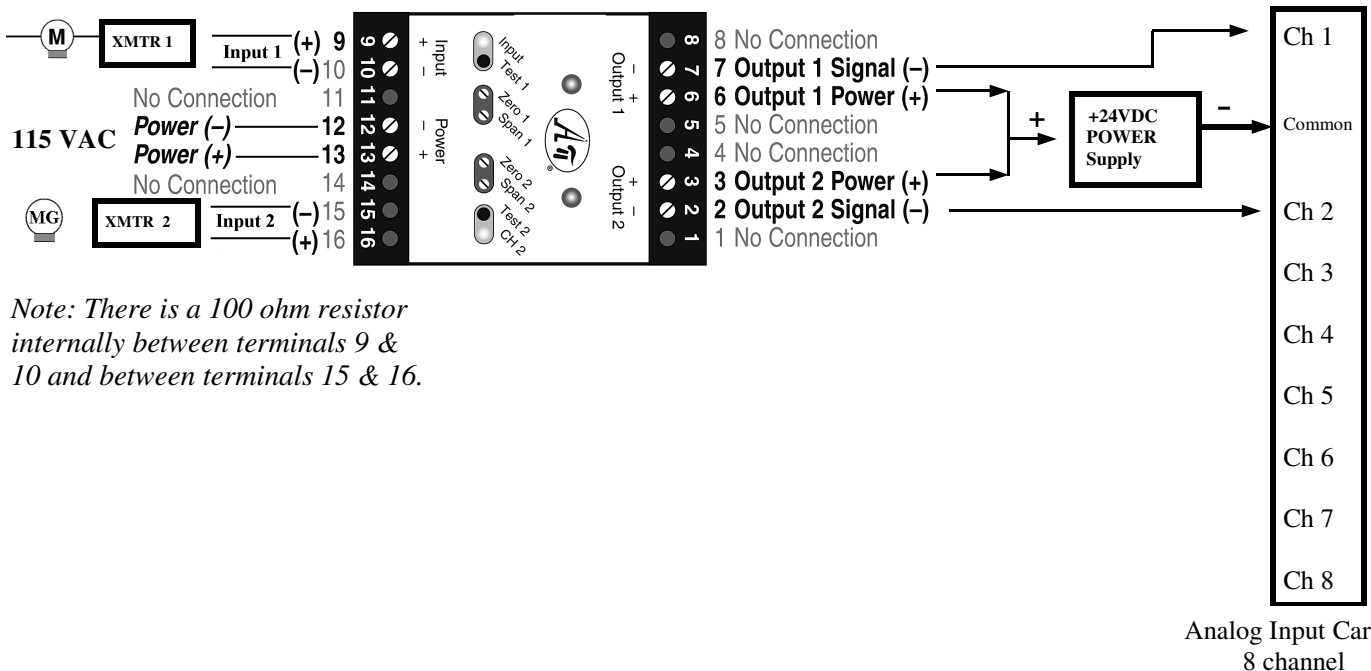
**Problem:**

We are using a DCS system that uses an 8 channel analog input card for the 4 – 20 mA inputs. The system provides 24 VDC to power the loops from a panel mounted +24 VDC Power Supply. When we connect the final two loops (Channels 1 & 2) coming from our field devices all of the inputs to the analog input card starts to drift and give incorrect data.



**Solution:**

The Api 4390 DIN EX3 will be a resistive load for your field devices and will control the 4 – 20 mA output loop but derives the power for the output loop from an external source. The connections from the output of the API 4390 DIN EX3 to the input of the DCS requires no additional components ( resistors ) other than the connecting wires.



*Note: There is a 100 ohm resistor internally between terminals 9 & 10 and between terminals 15 & 16.*