The ASP40 / MD40 & MD50 with the -420 option can now be used in a unique way – instead of the Master signal being sent to the Follower S2 input as a pulse, we can use the 4-20mA Master actual speed output as the speed reference to the Follower 4-20mA input. Here's a diagram of what we are able to do:
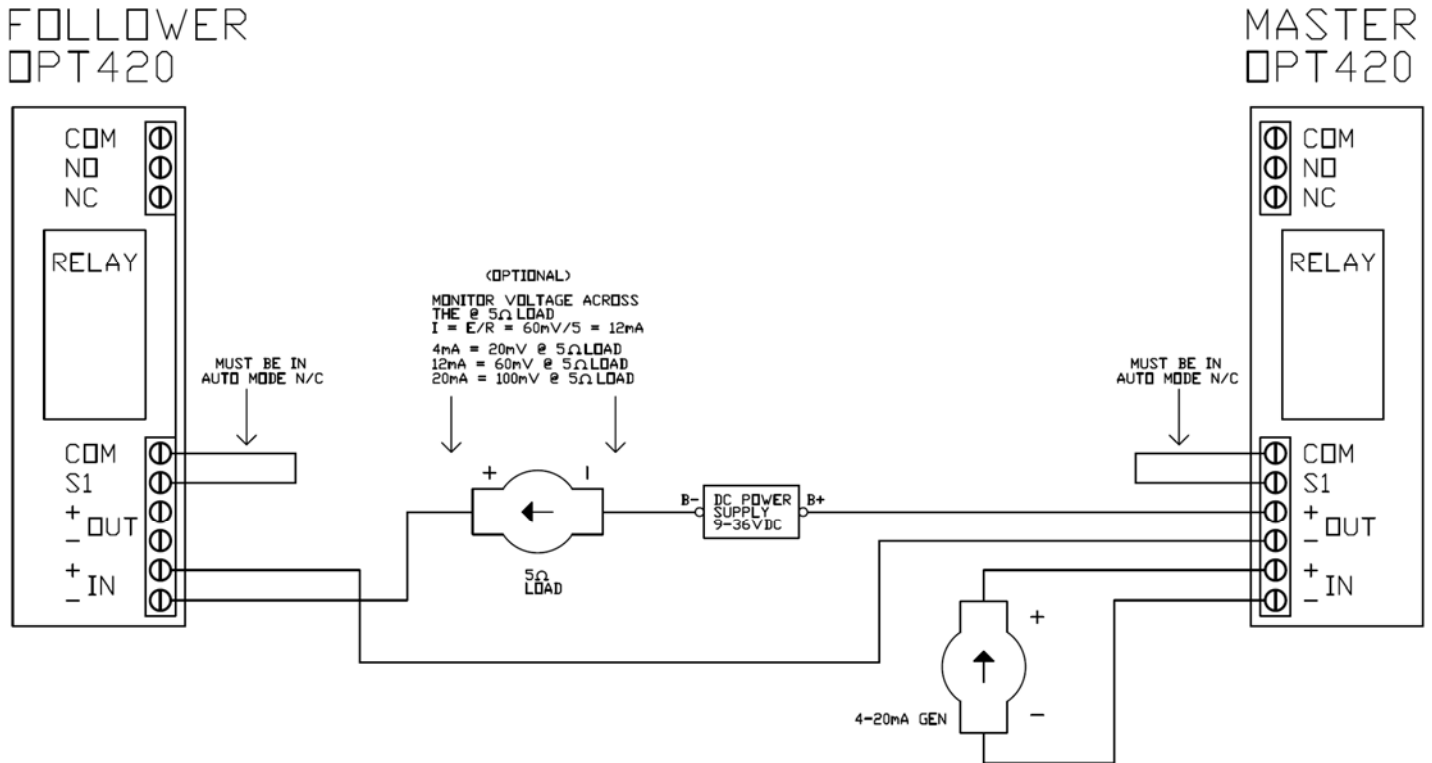
A PU Series encoder (or equivalent) is still required as the S1 input to both the Master and Follower MD/ASP device. As well, the user must supply a 9-36VDC loop power supply for the 4-20mA loop.

Where might this be needed? Applications where the environment includes a high level of electrical noise, or where the distance between the Master and Follower is over 300 feet (and signal loss is a concern). In addition, *the Master signal source does not have to be a Dart ASP/MD – it could be any 4-20mA signal related to Master speed being sent to a Follower device.*

Programming

Follower   Master

Item 10 = 3	Item 12 = 2
Item 13 = 3	Item 13 = 3
Item 21 = 1000 (100.0%)	Item 21 = 1000 (100.0%)
Item 35 = 1	Item 2021 = 1000 (100.0%) (OPT420 card in Slot 200)
Item 120 = 1 (Slot 200)	Item 2041 = 1000 (100.0%) (OPT420 card in Slot 200)
Item 121 = 3 (Slot 200 – Follower)	
Item 122 = 2 (Slot 200 – Follower)	
Item 2021 = 1000 (100.0%) (OPT420 card in Slot 200)	
Item 2041 = 1000 (100.0%) (OPT420 card in Slot 200)	