

APPLICATION NOTE

RS485 Cable Wiring for Terranova Ion Pump Controllers

NOTES:

- This RS485 application uses a special twisted pair cable with a separate ground wire.
- For the Terranova 751A/752/752A models, Diagram 1 below shows an example of a RS485 connection of three units. The connection is made using the rear-panel female DB9 connector labeled "RS-232 Serial I/O"
- The RS485 address for each unit is set on internal DIP switch S-2; please consult Instruction Manual.
- Additional P connectors (male, DB9), up to 32, can be added with arbitrary distance between them, for additional controllers.
- Maximum cable length, without repeaters is 4000 feet.
- For cables more than approximately 100 feet in length, it is recommended to add a 120 ohm resistor between D+ and D- at the farthest P connector from the master.
- For the 741/751 models, Diagram 2 shows the connection; note that the D+ and D- leads are reversed from those in Diagram 1.

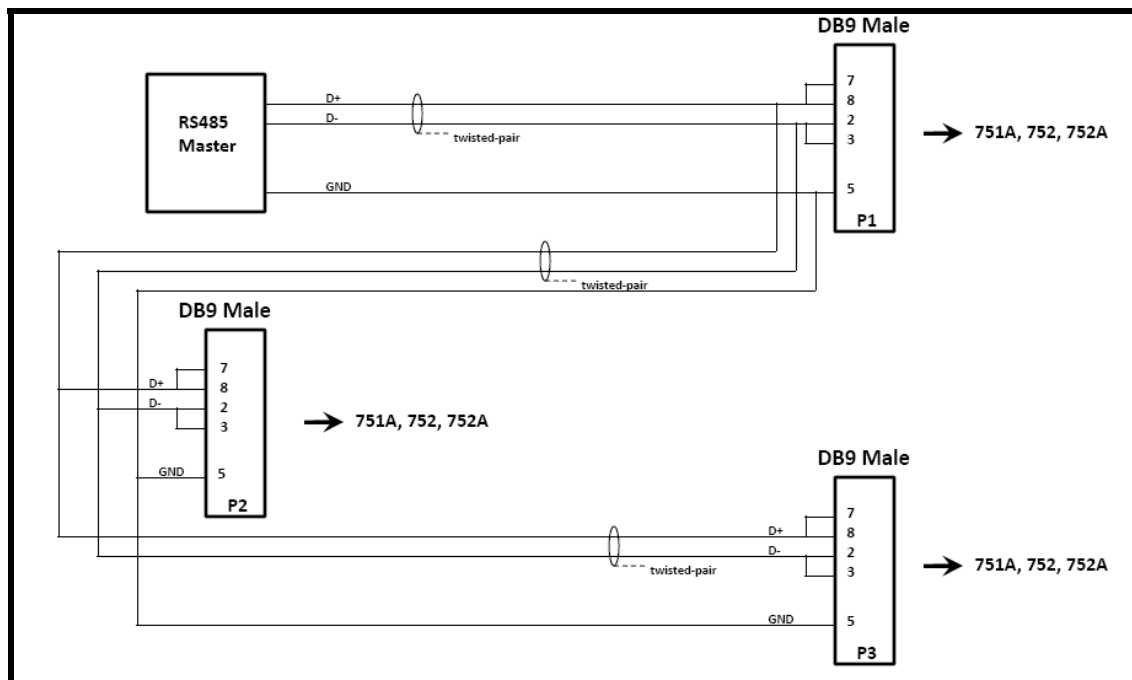


Diagram 1 – 751A, 752, 752A Controllers

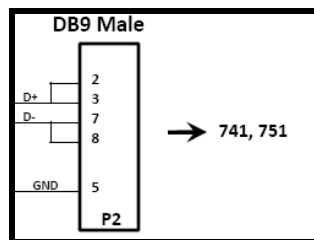


Diagram 2- 741 and 751 Controllers



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