

Subject: Troubleshooting for the Protocol 3 communications option

Controller firmware revision (see Protocol 3 manual to enter Product Information)

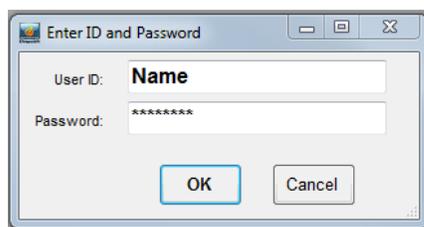
- The firmware of the Protocol 3 control must be version 2.3 or later to work with the Protocol Manager Software. If the control is version 2.2 or earlier contact Despatch for a replacement.

Controller parameters (see Protocol 3 manual to enter Communications Menu)

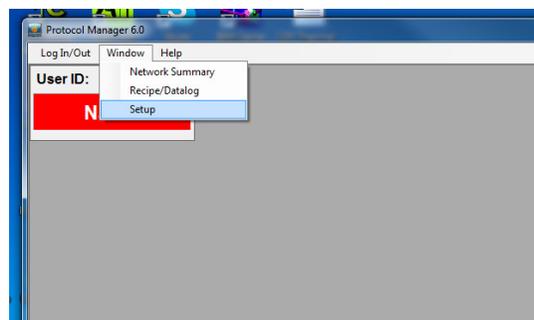
- Address (Default = 1) This setting must be different on each control/oven if using RS422/RS485 interface.
- Baud Rate (Default = 19.2K) If you are having problems, going to a lower baud rate may help, but do not change to start with.
- Parity (Default = None) This should remain the default.

Protocol Manager parameters

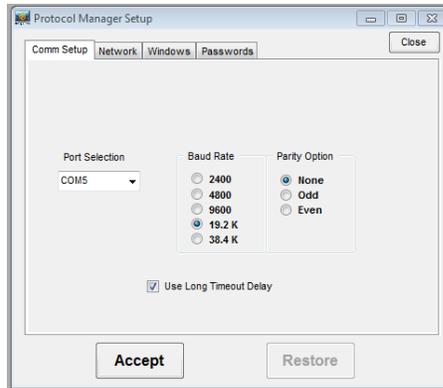
- Log on the highest level security (Level 4). The default password initially is "despatch".



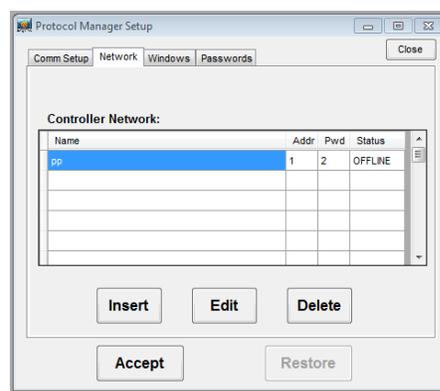
- Click on the Windows pulldown menu at the top of the screen.
- Click on Setup menu.



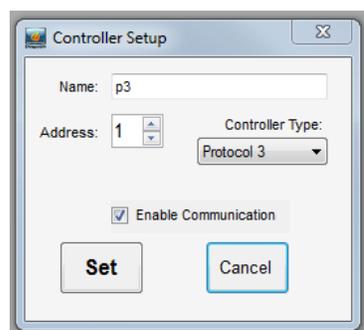
- Click on the Comm Setup tab and verify the settings match the controller parameters set above. Click on the Accept button when finished.



- Click on the Network tab and highlight the oven you are trying to setup. Click on the Edit button.



- Make sure the address matches and the Controller Type is set to Protocol 3. The enable communications box should be checked. Click on Set when finished.

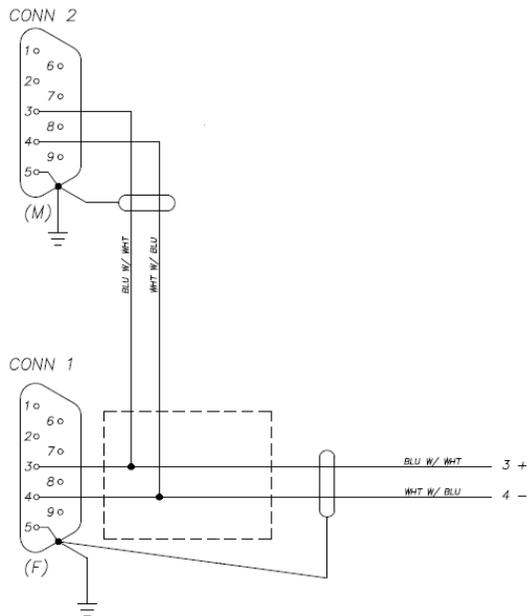


The software should now show a green ON-LINE. If not, check the hardware and cabling.

Controller hardware and Cabling

Check cabling between the controller and outside of oven

- The T+ should be connected to terminal #19 on the back of the controller. Check with an ohm meter that pin #3 on the 9 pin connector connected to this terminal.
- The T- should be connected to terminal #20 on the back of the controller. Check with an ohm meter that pin #4 on the 9 pin connector connected to this terminal.

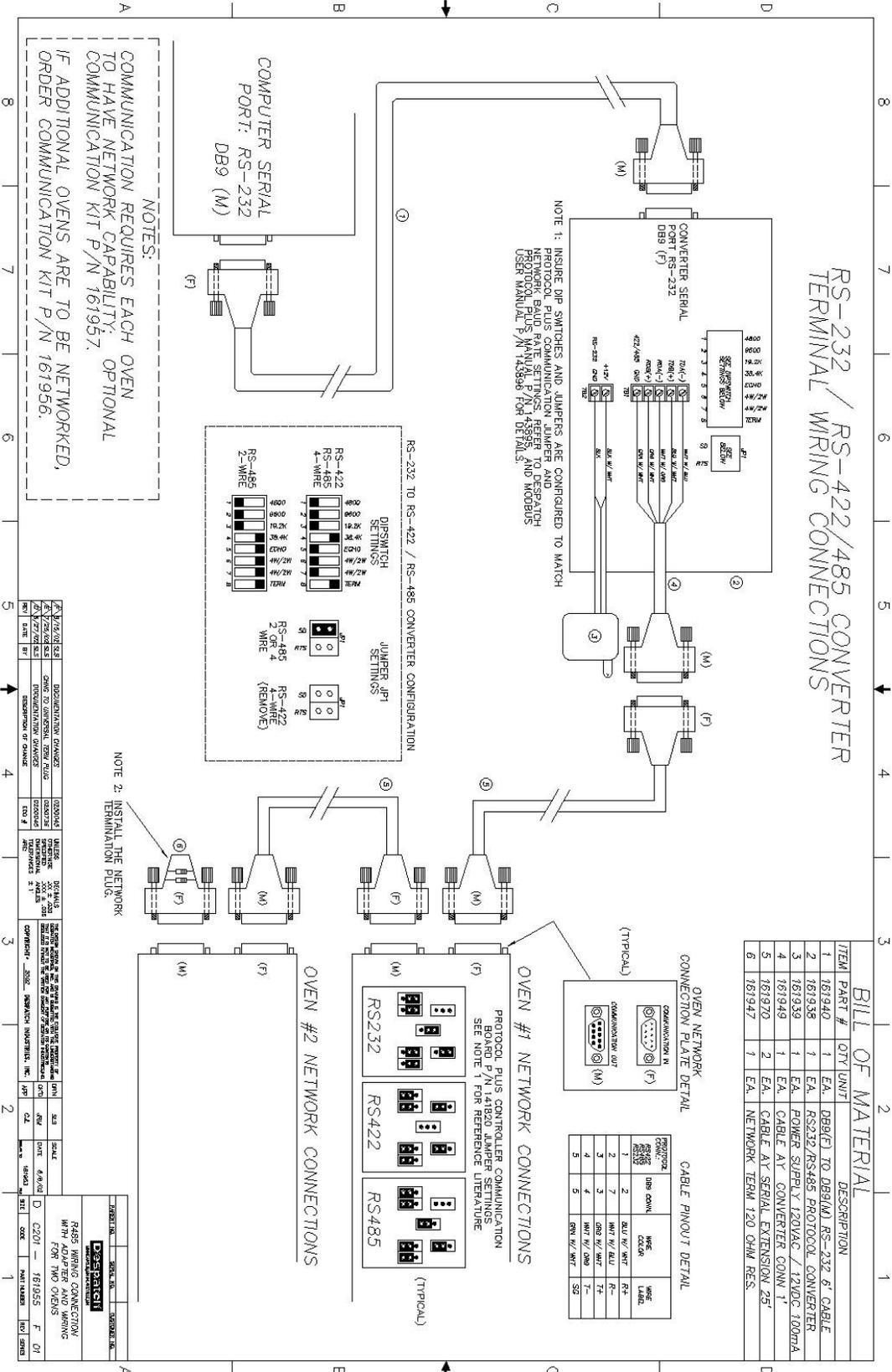


Check cabling between the computer and outside of oven

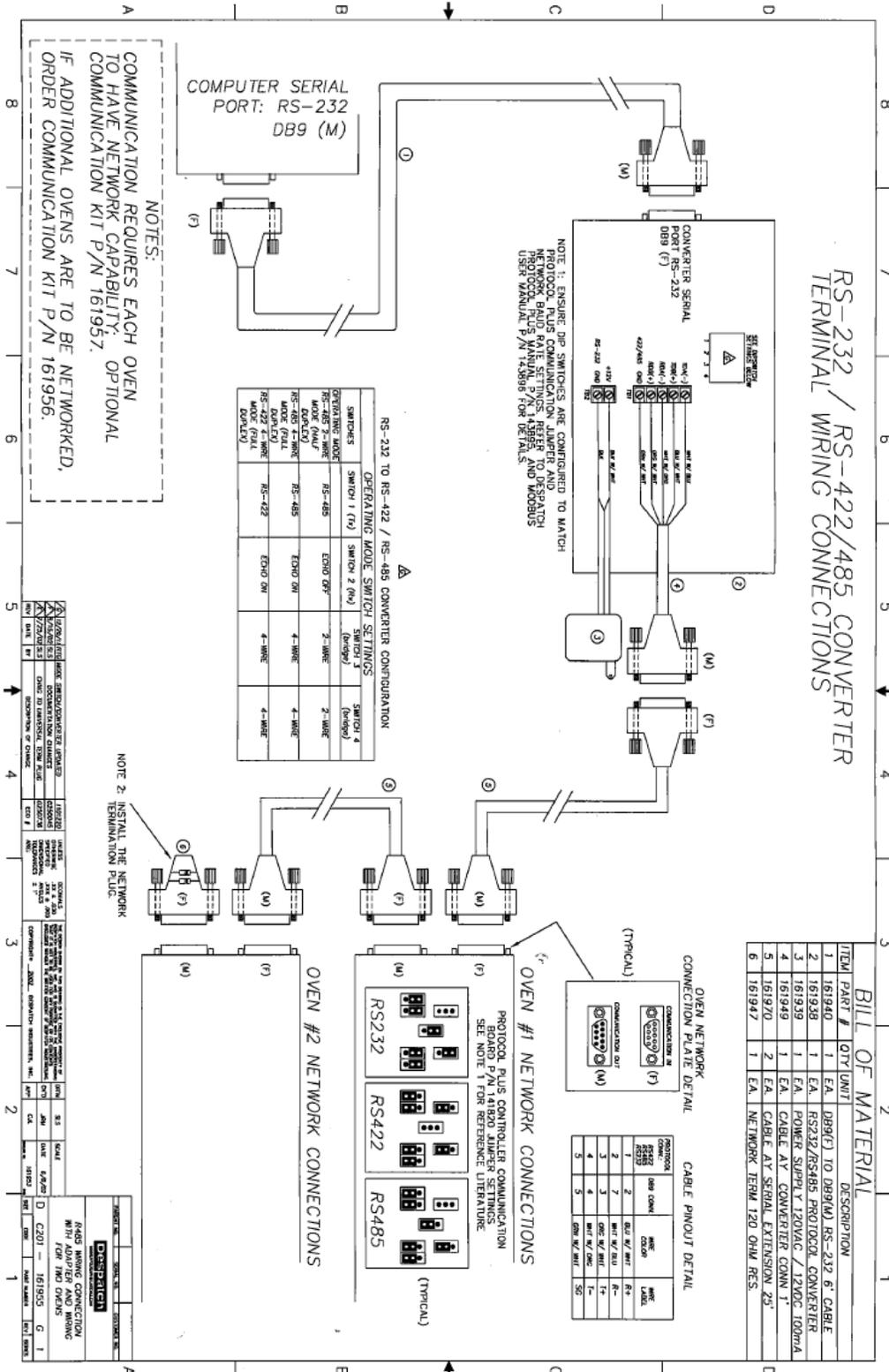
RS485 INTERFACE

The typical wiring schemes are shown below. There may be a combination of protocol plus and protocol 3 controllers. Additional ovens (maximum of 32 ovens) can be added using cable p/n 161970.

Old Serial Converter

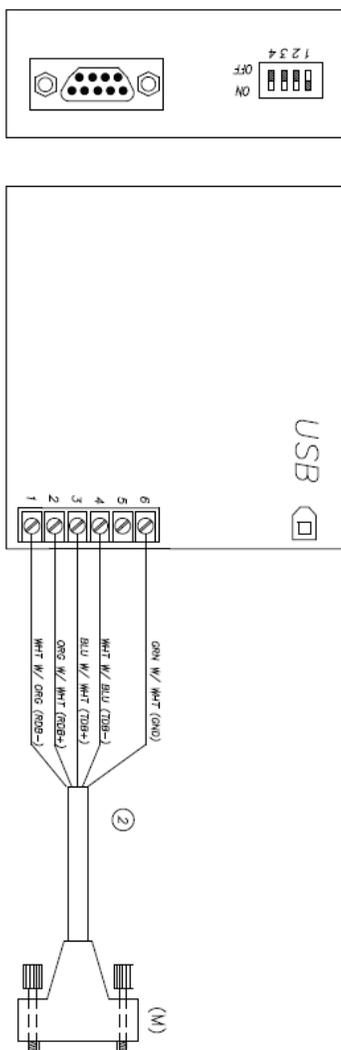


New Serial Converter



USB Converter

DIP SWITCH SETTINGS			
RS-485 2-WIRE MODE NO ECHO	SW1	SW2	SW3
	ON	OFF	OFF
	OFF	OFF	OFF



NOTE: PART 305401 INCLUDES A 3' USB CABLE

BILL OF MATERIAL			
ITEM	PART #	QTY	UNIT
1	305401	1	EA.
2	161949	1	EA.

ORIN	AGB	SCALE	DATE
OK'D	DOB	11/12/12	
APP	AGB	DRAWN TO	

Despatch <small>UNIVERSITY MICROFILMS</small>	SERIAL ADAPTER USB TO RS-485 ASSY
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UNLESS OTHERWISE SPECIFIED DIMENSIONAL TOLERANCES ARE:	DECIMALS	FRAC.	ANGLES
	.XX ± .030		± 1°
	.XXX ± .005		

REV	DATE	BY	DESCRIPTION OF CHANGE