

Engineering Department

Engineering Change Order (ECO)

ECO #: ECO-PN4-U-001

Effective Date: January 6, 2017

Title: Pro4 Ultra USB HUB and DB9 Connector Modification

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 Engineering Approval: aeg
 Operations Approval: JJV

Date: January 6, 2017
 Date: January 16, 2017
 Date: January 24, 2017

Summary:

Pro4 ultra panel was revised to reflect modifications to the integrated USB HUB and DB9 Connector.

Note that while Production Instructions have been updated they are still included in a single EPR document.

Parts Affected:

Part Number	Notes	Removed	Added	Modified
PN4-U	Control Panel Pro 4 Ultra	☐	☐	☒
52085	Sabrent USB HUB De-Cased	☐	☐	☒
NOR1006-ND	Connector DB-9 Male	☐	☐	☒

Detail:

Pro4 ultra panel was revised to reflect modifications to the integrated USB HUB and DB9 Connector. The USB HUB includes a jumper modification to receive power from the computer USB port. This modification will power all devices connected to the internal USB HUB through a single USB port.

The max current draw has been measured at 0.360 A with the standard complement of device attachments. USB2.0 is spec'd at 0.5A.

The DB9 connector wiring scheme has been updated to follow pin wiring consistency with current Pro4 system. Pin 7 and 8 on the DB9 connector will be wired to pin 4 (green) and 6 (blue) on the 8 pin whip respectively.

Action Item:

Action	Department	Acknowledgement Initials
Notify Pro4 Ultra panel assemblers of the USB HUB and DB9 connector updates. Provide ECO documentation to Pro4 ultra panel assemblers.	Purchasing	NS

Modified / Referenced Documents:

Document	Current Revision
UCB_EPR_1.2	1.2

-- END OF ORDER --