TOTALFLOW

Technical Bulletin #172

Cable Modifications per x710 & x810 MDS Radios

Totalflow Technical Bulletin Version 1.0 Revision AB (08-23-2010)





1 Introduction

The following Technical Bulletin discusses changes that have been made (per GE/MDS Product Bulletin PB-0904) to cables connecting MDS x710 and x810 family radios to Totalflow equipment.

The following Totalflow cables have been obsoleted and replaced with:

2015026-005 replaced with 2103990-001

2015026-010 replaced with 2103990-002

2015026-004 replaced with 2103990-003 (This cable is a spare part only. It is no longer offered in Comm Kits.)

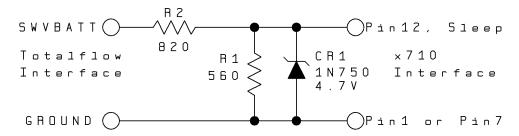
These obsoleted cables are still good cables to use with the MDS X310 Series. However, the newer replacement cables will ONLY support the MDS x710 and x810 Series.

Any User Drawings (UDs), Wiring Instructions (WIs) or drawings in users' manuals should be updated if they make reference to the obsoleted cables.

2 Description

MDS x710 and x810 radios employ a sleep mode function that turns off most of the circuits in the radio, thus substantially reducing the power consumption. Sleep mode is initiated by grounding pin 12 of the radio interface. Removing this ground re-enables the radio and brings it out of sleep mode.

The updated cables incorporate a voltage divider (two resistors) and a 4.7V zener diode to prevent voltages in excess of 5V on pin 12 of the MDS radio.



3 Conclusion

Pin 12 of the MDS interface is a digital input and expects a logic High (3.5 – 5.0VDC) or logic Low (0 – 1VDC) to be asserted. Applying voltages between 1VDC and 3.5VDC, or greater than 5VDC is not recommended and may cause a Radio Memory Fault.