Product Type: Controllers

Reference: AN2069
Date: March 23, 2007

Telemetry Configuration for Fiber Optic Applications

This document describes the setup and use of NiWot fiber modems used to communicate between an ASC/2M master and one or more ASC/2(S) and ASC/3 controllers. It includes the configuration for the master, controllers and the cabling requirements. This note also addresses the issue of the ASC/3 controller NOT supplying 12vdc to the NiWot modems via Port 3A, as the ASC/2 controller did via the Telemetry Port3/TLM.

Telemetry Configuration for Fiber Optic Applications
(33525G1 Telemetry Module and NiWot Modems)

ASC/2M & ASC/2, ASC/2S or ASC/3 in Same Cabinet

Controller Type	SW1	JP1	JP2	JP3	JP4
ASC/2M	ASC/2 position (left)	Down (2-3)	Up (1-2)	Up (1-2)	Up (1-2)
ASC/2 (2S)	ASC/2 position (left) (9 pin TLM used)	Down (2-3)	Up (1-2)	Up (1-2)	Up (1-2)
ASC/3 – Port3A	NA	NA	NA	NA	NA

Master Telemetry Channel Set-Up

Data Rate	Data Framing	Commands per Second	Command Time	Window	Buffer Level	RTS/CTS Delay	TX Time
9600/19.2	8/0/1	50	371	100	2	0	0

ASC2, ASC2S or ASC3 Local Controller in Master Cabinet

TRD	Duplex	Data Rate	Data/Parity/Stop
ASC/2 (S) – 2000/2000	FULL	9600/19.2kbps	8/0/1
ASC/3 – 0.0/8.0	FULL	9600/19.2kbps	8/0/1

Note: Jumpers JP1 & JP2 on F.O.I/F panel (32680G1) should be open
Must also have CR1 & CR3 [1N4454 or Equivalent] and R1 & R2 (6.8kΩ ¼W 5%) installed.

Product Type: Controllers

Telemetry Configuration for Fiber Optic Applications

Reference: AN2069
Date: March 22, 2007

ASC/2, ASC/2S or ASC/3 Only (No Master in Cabinet)

Controller Type	SW1	JP1	JP2	JP3	JP4
ASC/2 (2S)	ASC/2 position (left) (9 pin TLM used)	Down (2-3)	Up (1-2)	Up (1-2)	Up (1-2)
ASC/3 – Port3A	NA	NA	NA	NA	NA

Local Controller (No Master in Cabinet)

TRD	Duplex	Data Rate	Data/Parity/Stop
ASC/2 (S) – 2000/2000	FULL	9600/19.2kbps	8/0/1
ASC/3 – 0.0/8.0	FULL	9600/19.2kbps	8/0/1

Note: Jumpers JP1 & JP2 on F.O.I/F panel (32680G1) should be open
Must also have CR1 & CR3 [1N4454 or Equivalent] and R1 & R2 (6.8kΩ ¼W 5%) installed

Product Type: Controllers

Telemetry Configuration for Fiber Optic Applications