CR850 Wiring Diagram

Company: Water Survey Canada
Project: WSC EDAS

Device	Function	Wire Color	Terminal
			1H (SE1)
			1L (SE2)
			⏚
			2H (SE3)
			2L (SE4)
			⏚
			3H (SE5)
			3L (SE6)
			⏚
			EX1
			⏚
			EX2
			⏚
			P1
			⏚
Setup button	Signal	WHITE	P2
Setup button / SW2	REF / Power GND	BLACK	G
			5V

	RS-232 (Non-isolated)
SC105 #1 (SDC7)/ SC105 #2 (SDC8)	CS I/O

Source	Function	Wire Color	Terminal
Terminal Block	CR800 Power	RED	12V
Terminal Block	CR800 Power GND	BLACK	G

Device	Function	Wire Color	Terminal
			SW12
Bullet Modem	Power GND	BLACK	G
LR4	Power	RED	12V
LR4	Power GND	BLACK	G
Terminal Block / LR4	SDI-12	WHITE	C1 (COM1Tx)
			C2 (COM1Rx)
Bullet Modem	Rx (Pin3)	RED	C3 (COM2Tx)
Bullet Modem	Tx (Pin2)	BROWN	C4 (COM2Rx)
Bullet Modem	GND (Pin5)	YELLOW	G

Other Peripherals Included
SC105 #1 - SatComm Datalogger Port
SC105 #2 - SatComm Display Port

TERMINAL BLOCK WIRING

POWER SOURCE 12VDC	FUSE	Jumper to 12VDC Block
	12VDC	Fused terminal
	12VDC	LR4 - Daisy Chain Power
	12VDC	CR850-XT - Power
POWER SOURCE GND	GND	Satt Comm - GND
	GND	CR850-XT - GND
	GND	
	SDI-12	CR850-XT - SDI12 C1
	SDI-12	
	SDI-12	

LR4 Wiring

Control Block		#1	#2	#3	#4
GND	Terminal Block - GND	SatComm - 12V	not used	Bullet Modem SW1	SW2
Power	Terminal Block - Power	Terminal Block - 12V		Terminal Block 12V	Terminal Block 12V
SDI12	Terminal Block - SDI12				
RX	Not used				
Dig IO	Not used				

EARTH GROUNDS	
SatComm 12V Ground	CR850 Earth Ground
Bullet 12V Ground	CR850 Earth Ground