

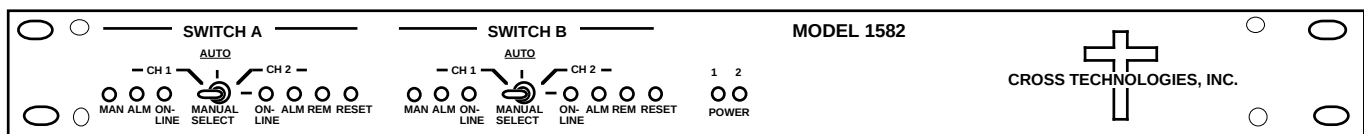
1582-03, -04 Data Switches

The 1582-03 Data Switch provides Auto, Manual, or Remote relay switching between CH1 and CH2 RS232C data signals on pins 2 or 3, selectable, with pin 5 ground and the other pins of the DB9 connectors not connected.

Alarm conditions are either if data is lost for a preset 1 to 9 minutes on CH1, CH2 or with external alarm contact closures. The 1582-04 has two switches in one chassis. Switching logic can be jumper selected as follows:

1. CH1 Prime Mode - Switches from CH1 to the CH2 only if CH1 alarms and CH2 is good. Switches back when CH1 no longer in alarm or both CH1 and CH2 are bad.
2. Latch to CH2 Mode - Latches to CH2 if CH1 alarms and CH2 is good. Return to CH1 only when Manual Reset switch is pushed or Remote Reset pin is grounded and if no alarm on CH1.
3. Minimum AUTO switching, Initial Channel Select (ICS) Mode - Switch stays on channel last selected by Manual or Remote selection after return to AUTO. AUTO switching occurs only if current channel alarms and other channel is clear.

If power is lost or first applied (as alarms at power up dictate), CH1 is selected. The Manual Select switch and (when in AUTO) contact closures to Remote Select pins, select CH1 or CH2 independent of alarms. LEDs and closures indicate alarms and switch selection of CH1 or CH2 and REMOTE or MANUAL operation. Redundant power supplies.



1582-04 DATA SWITCH

EQUIPMENT SPECIFICATIONS*

Data Characteristics

Input/Output	RS232C
Data rate	128 kbps max
Connector	DB9, female

Switch Characteristics

Type	Relay, non-blocking
Isolation	>40 dB
Switch time	≤10 milliseconds
Contact resist.	≤10Ω, < 1Ω typ
Configuration	SPDT
Pins switched	2 or 3, selectable
Pins connected	5 (GND)
Switch after alm	Settable for 0 to 9 min. in 1 min. increments

Controls and Indicators

Manual Select SW	Switches between manual or automatic operation
LEDs	CH1, CH2 ON-LINE, ALARM; MANUAL; REMOTE; Pwr CH1,CH2
Closures In	Alarm 1,2; Remote 1,2; Remote Reset
Closures Out	Data Alarm 1,2,1 OR 2; Remote; Manual; CH1, CH2 Selected

Other

Mechanical	19 inch standard chassis 1.75"high X 11.5" deep
Power	100-240 ± 10% VAC, 47 -63 Hz, 20 watts; Redundant power supplies

*+10°C to +40°C; 2000 meters max elevation; 80% max humidity; Specifications subject to change without notice

