

1582-11, -12 DATA SWITCH

The **1582-11** Data Switch provides Auto, Manual, or Remote relay switching between CH1 and CH2 clock signals (RS232C or RS422) on pins 3 and 8 with pin 5 ground and the other pins of the DB9 connectors tied together.

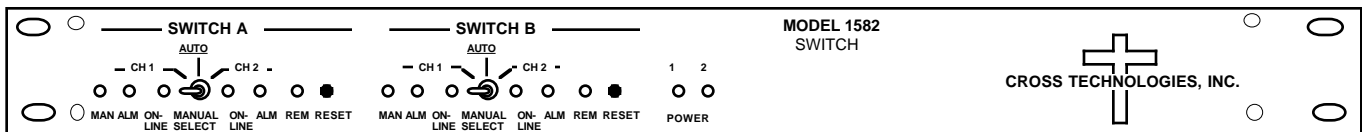
Alarm conditions are either if clock is lost for a preset 0.1 to 0.9 seconds on CH1, CH2 or with external alarm contact closures. The **1582-12** has two switches in one chassis. Switching logic can be jumper selected as follows:

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.



1582-12 DATA SWITCH

1582-11, -12 Technical Specifications

Data Characteristics

Input/Output RS422 or RS232C
 Data rate 512 kbps max
 Connector DB9, female

Switch Characteristics

Type Relay
 Isolation >40 dB
 Switch time ≤10 milliseconds
 Contact resist. ≤10Ω, < 1Ω typ
 Configuration DPDT for clock pins
 Pins switched 3, 8
 Pins connected 1,2,4,5 (GND), 6,7,9
 Switch after alarm Settable for 0-0.9 in 0.1 sec. increments sec.

Controls and Indicators

Manual Select SW Switches between manual or automatic operation
 LEDs CH1, CH2 ON-LINE, ALARM CH1,CH2; MANUAL; REMOTE; Pwr CH1,CH2
 Closures In Alarm 1,2; Remote 1,2; Remote Reset
 Closures Out Clock 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 to +40 degrees C; 2000 meters max elevation; 80% max humidity; Specifications subject to change without notice

