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.

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**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.

Access to minutes 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

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