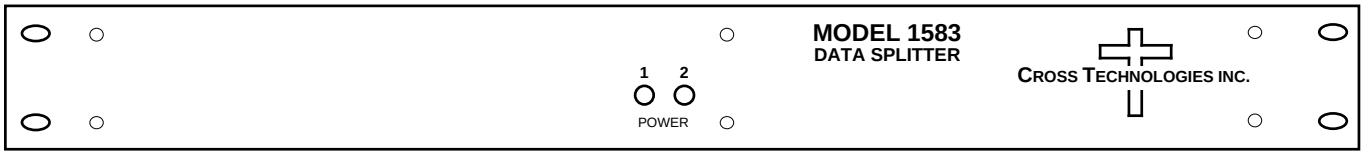
Instruction Manual

Model 1583-09A
Data Splitter

April 2009 Rev. C



When ordering parts from Cross Technologies, Inc., be sure to include the equipment model number, equipment serial number, and a description of the part.

CROSS TECHNOLOGIES, INC.

6170 Shiloh Road
Alpharetta, Georgia 30005

(770) 886-8005
FAX (770) 886-7964
Toll Free 888-900-5588

WEB www.crosstechnologies.com
E-MAIL info@crosstechnologies.com

INSTRUCTION MANUAL

MODEL 1583-09A Data Splitter

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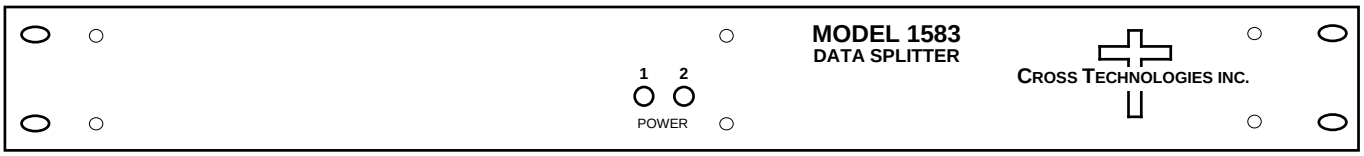
MODEL 1583-09A Data Splitter

1.0 General

The 1583-09A Data Splitter provides 9 RS232C outputs of the data signal (pin 2 of the DB9 connector).

1.1 Equipment Description

The 1583-09A Data Splitter provides 9 RS232C outputs of the data signal (pin 2 of the DB9 connector). One of the outputs is a hard wired pass through of the input which can be used for very important function s or to further split the data. Dual power supplies provide redundant power to the 1583-09A with front panel LEDs indicating proper power supply operation. The unit is housed in a 1 3/4", rack mount chassis and all data connectors are DB9, female.



FRONT

1.2 Technical Specifications

Data Characteristics

Input/Output	RS232C
Data rate	128 kB/s max
Number of outputs	1 - Hard wired loop of the input
	8 - Buffered RS232C outputs
Connector	DB9, female

Indicators

POWER CH1 LED	Turns green when power is applied to number 1 input on the rear panel
POWER CH2 LED	Turns green when power is applied to number 2 input on the rear panel

Other

Mechanical	19 inch standard chassis 1.75"high X 7.5" deep
Power	220 VAC, 50-60Hz, 0.25A max

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*+10˚C to +40˚C; Specifications subject to change without notice

1.3 Environmental Use Information

A. **Rack-Mounting** - To mount this equipment in a rack, please refer to the installation instructions located in the user manual furnished by the manufacturer of your equipment rack.

B. **Mechanical loading** - Mounting of equipment in a rack should be such that a hazardous condition does not exist due to uneven weight distribution.

C. **Elevated operating ambient temperature** - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack may be greater than room ambient temperature. Therefore, consideration should be given to Tmra.

D. **Reduced air flow** - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised. Additional space between unit may be required.

E. **Circuit Overloading** - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of circuits could have on over current protection and supply wiring. Appropriate consideration of equipment name plate rating should be used, when addressing this concern.

F. **Reliable Earthing** - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connection to the Branch (use of power strips).

G. **Top Cover** - There are no serviceable parts inside the product so, the Top Cover should not be removed. If the Top Cover is removed the ground strap and associated screw MUST BE REINSTALLED prior to Top Cover screw replacement. FAILURE TO DO this may cause INGRESS and/or EGRESS emission problems.

2.0 Installation

2.1 Input/Output Connectors

The following are the input and output connectors.

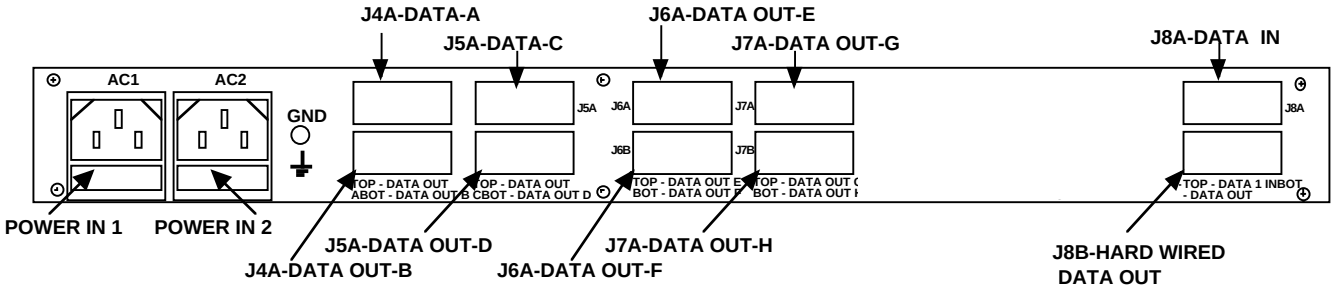


FIGURE 2.0 1583-09A REAR PANEL

TABLE 2.0 INPUT / OUTPUT CONNECTORS

J4, J5, J6, J7, J8, - DATA CONNECTORS (FIGURE 2.1)

Function	Pin #	Description
DATA	2	RS232C Data
GROUND	1,5	Ground
NO CONNECTION	3,4,6,7,8,9	No Connection

AC1, AC2 - POWER IN - Provides AC inputs for dual power supplies.

FAC1, FAC2 - 1/4 AMP FUSES - 1/4 AMP fast blow 115 VAC fuses for the dual power supplies.

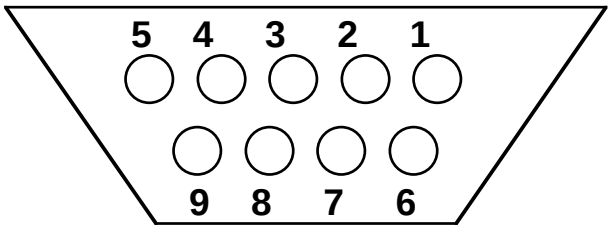


FIGURE 2.1 DB9 PIN OUT

2.2 Indicators

The following are the front panel indicators. There are no controls to adjust.

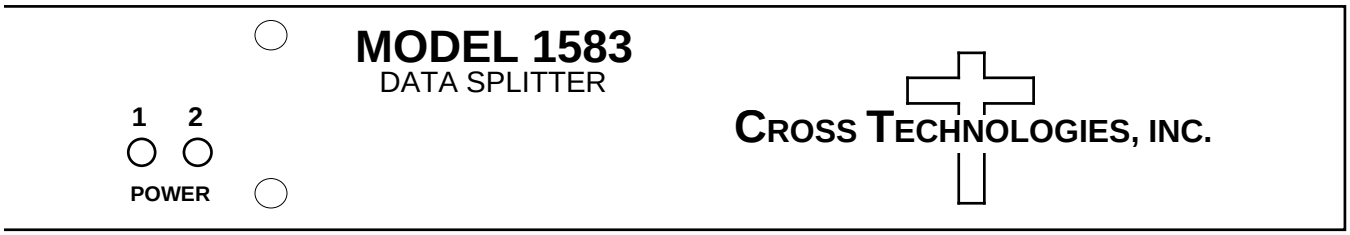


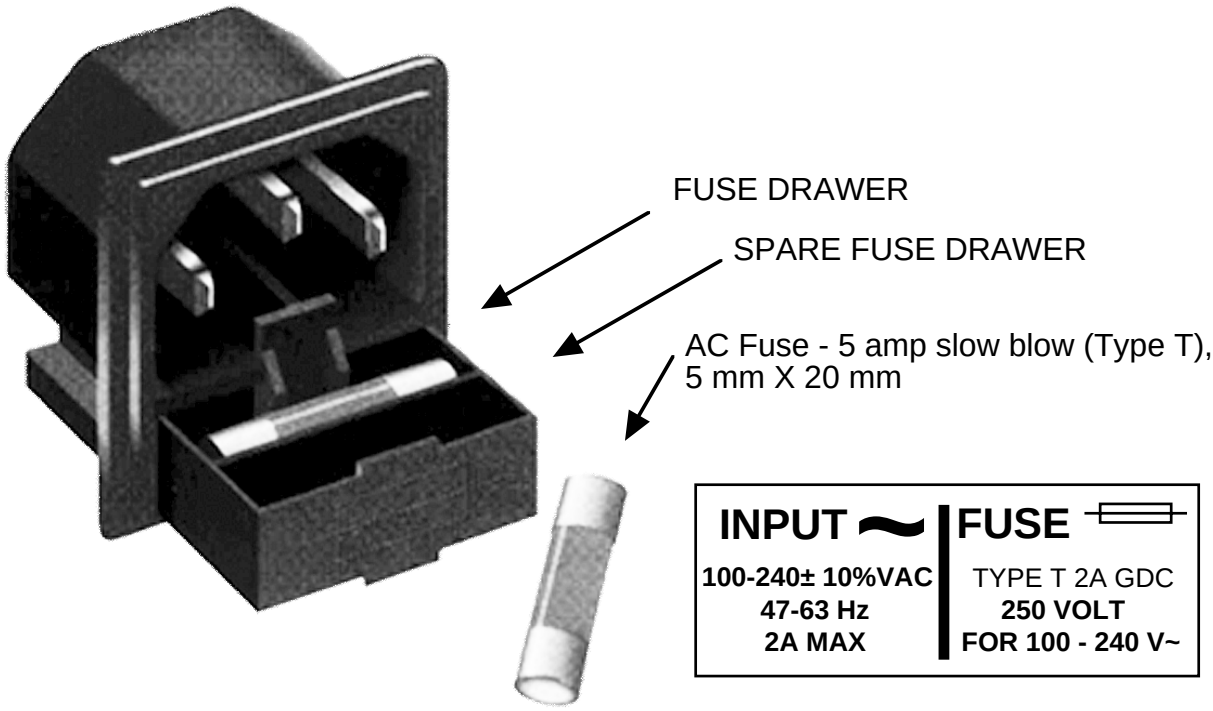
FIGURE 2.2 1583-09A FRONT PANEL INDICATORS

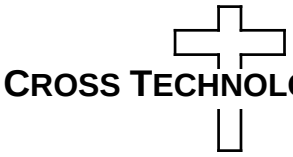
TABLE 2.1 FRONT PANEL INDICATORS

Item	Description
POWER CH1 LED	Turns green when power is applied to number 1 input on the rear panel
POWER CH2 LED	Turns green when power is applied to number 2 input on the rear panel

2.3 Installation/Operation

1. Install the 1583-09A in the equipment rack.
    1.1. Elevated operating ambient - If installed in a closed or multi-unit rack assembly, the operating ambient of the rack may be greater than the room ambient. Therefore, considerations should be given to the Tmra.
    1.2. Reduced air flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
    1.3. Mechanical loading - Mounting of equipment in a rack should be such that a hazardous condition is not achieved due to uneven loading.
    1.4. Circuit overloading - Consideration should b e given to the connection of the equipment to the supply circuit and the effect that overloading of circuits could have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be given supply connections.
    1.5. Reliable earthing - Reliable earthing of rack mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connection to the Branch (use of power strips).
2. Connect data to the RS232C DB-9 DATA INPUT (J8A) and DATA OUTPUT connectors (J5A,B, J6A,B, J7A,B,J8B). Note that J8B is a hard wired loop of the input and will always pass data even when power is off.
3. Connect power via two power cords.
    3.1. AC Fuse - The fuse is a 5 mm X 20 mm, 0.25 amp slow blow (Type T) and is inserted in the far slot in the drawer below the AC input as shown in Figure 2.3. There is a spare fuse in the near slot. If a fuse continues to open, the power supply is most likely defective.
4. Check that data is present at all data outputs.





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