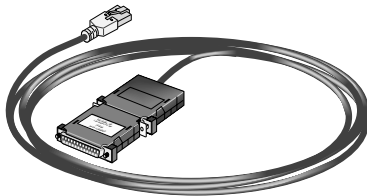


# CR9000-to-PC Interfaces

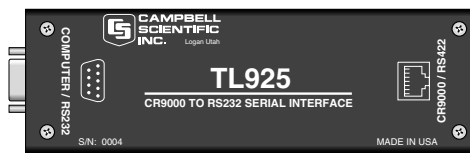
## Models PLA100, TL925, and BLC100

Communication between a Campbell Scientific CR9000 or CR9000C Measurement and Control System and an IBM (or compatible) PC or laptop is supported via the computer's parallel port (PLA100), serial port (TL925), or ISA bus slot (BLC100).

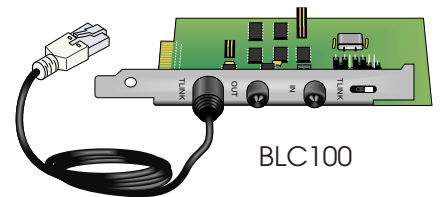
Datalogger programming, file transfer, and real-time monitoring of data is provided by Campbell Scientific's PC9000 Support Software for Windows.



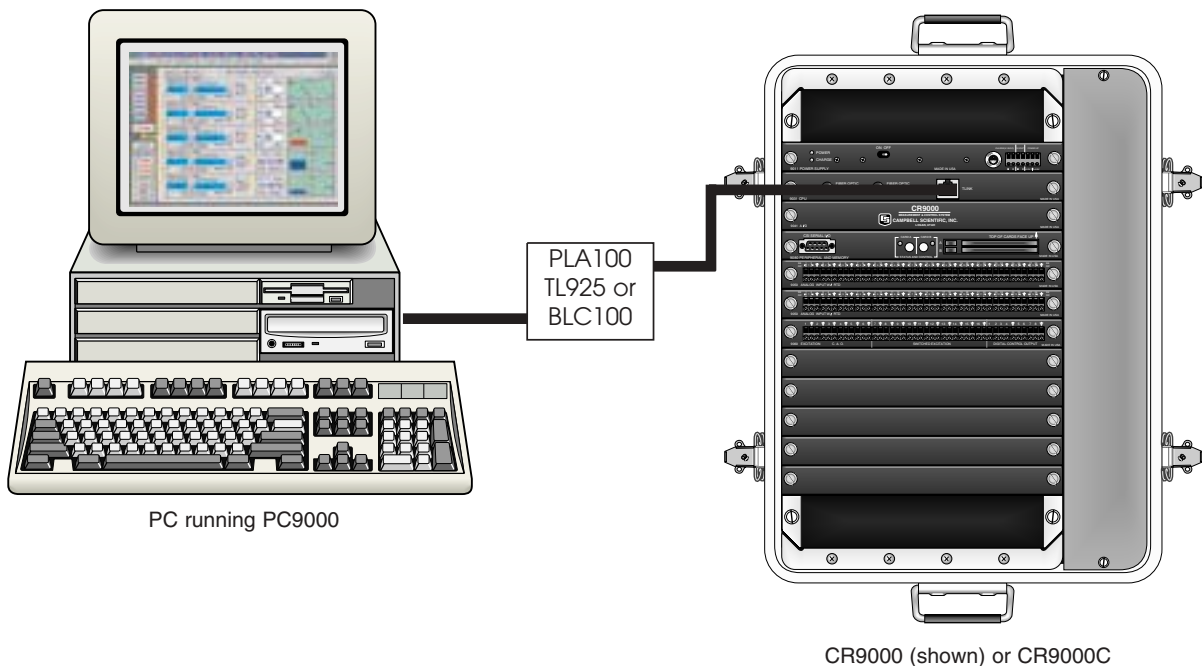
PLA100



TL925



BLC100



**CAMPBELL SCIENTIFIC**  
CANADA CORP.

11564 - 149 street - edmonton - alberta - T5M 1W7  
tel 780.454.2505 fax 780.454.2655

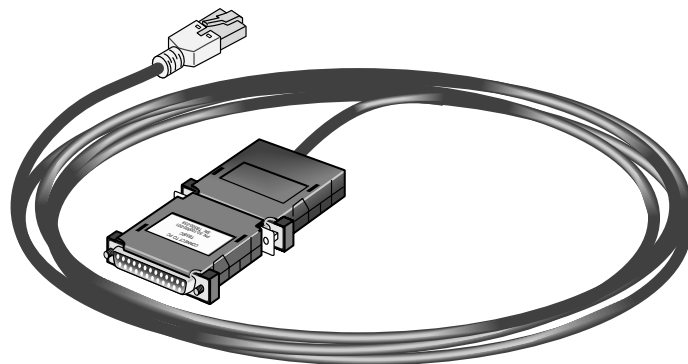
[www.campbellsci.ca](http://www.campbellsci.ca)

---

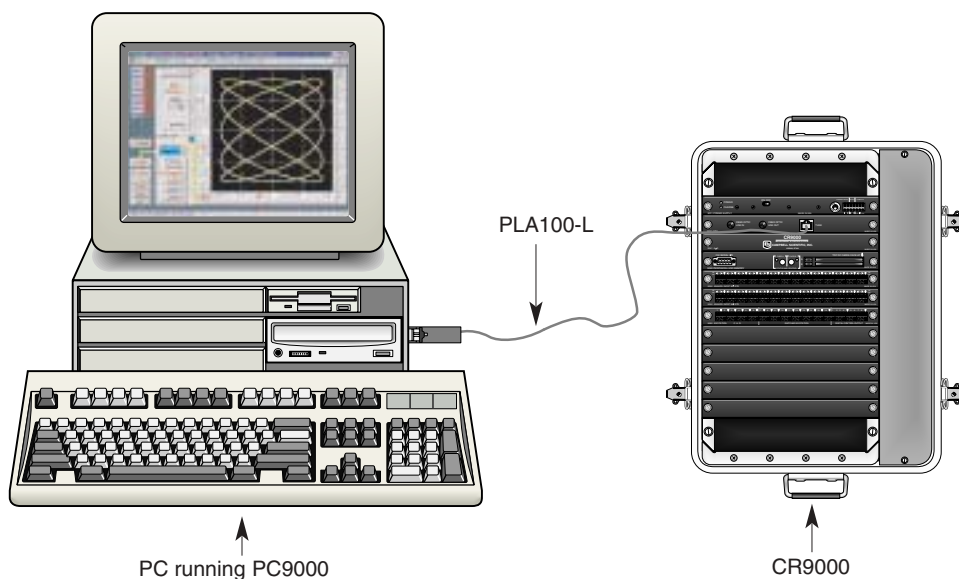
# CR9000 to Parallel Port Interface

## Model PLA100

The PLA100-L Parallel Link Adapter is required for direct communication between the CR9000(C) and the parallel port of a computer. The PLA100 converts the computer's parallel port (using LPT1 or LPT2) protocol to the CR9000's Tlink high speed protocol.



PLA100 cable length is specified (in feet) by the user; 50 ft length maximum (i.e., PLA 100-L50).



### Specifications

- Power: Drawn from the CR9000 Tlink port
- Current (supplied by the CR9000): ~50 mA typ.
- Connections: 25-pin parallel port (LPT1 or LPT2) to 8-pin RJ45
- Operating Temperature Range: -25° to +50°C
- Size: 2.25" x 0.5" x 4.0" (5.7 x 1.3 x 10.2 cm)
- Weight (shipping): 0.4 lb (1.5 lb) [0.19 kg (0.68kg)]

Optional: A DB-25 to DB-25 cable (CSI Model SC25PS or equivalent) can be used between the PC and PLA100 for ease of use. The SC25PS is approximately 5 feet in length.

---

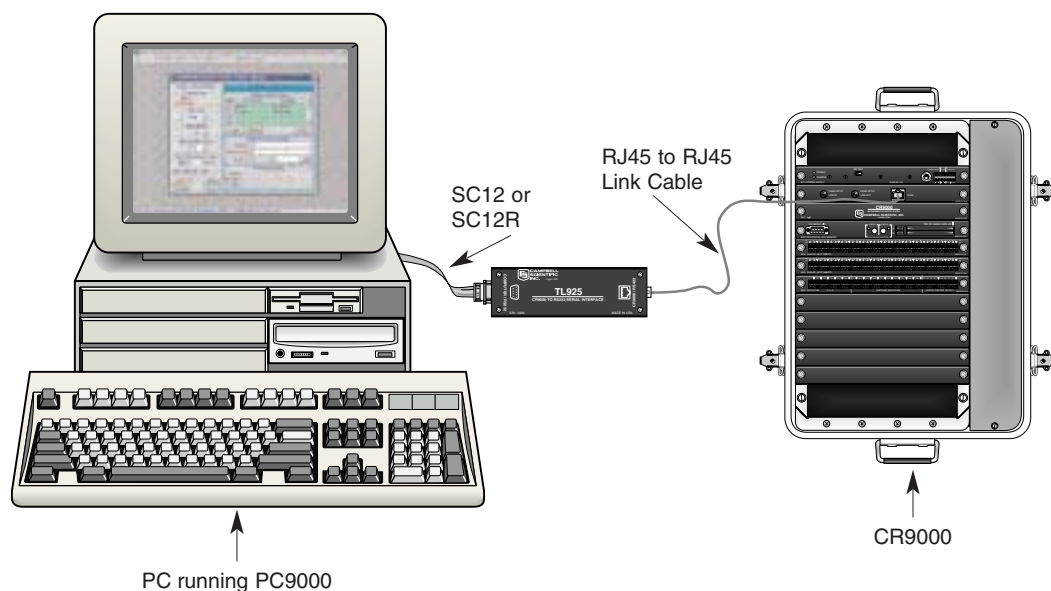
# CR9000 to RS-232 Interface

## Model TL925

The TL925 CR9000 to RS-232 Serial Interface is required for direct communication between the CR9000 and the serial port of a computer. The TL925 isolates the computer's electrical system from the datalogger's, thereby protecting against ground loop, normal static discharge, and noise. The TL925 also converts the computer's RS-232 serial protocol to the CR9000's Tlink high speed serial protocol. The TL925 also supports the use of phone modems.



A standard 9-pin cable (CSI Model SC12 or SC12R or equivalent) is required between the PC and TL925. The SC12(R) is approximately 2 feet in length; a customer-supplied equivalent can be up to 50 feet. If the computer has a 25-pin serial port, a DB25 to DB9 adapter cable is required.



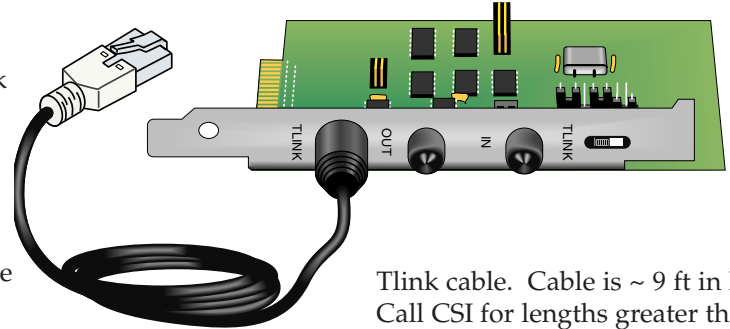
### Specifications

- Power: Drawn from the CR9000 Tlink port
- Current (supplied by the CR9000): ~ 50 mA typ.
- Connections: 9-pin RS-232 female port configured as DCE to 8-pin RJ45 connects the CR9000 to the TL925
- Baud rate: 300 to 115.2 kbaud with auto baud detection
- Operating temperature range: -25° to 50°C
- Size: 2.1" x 1.0" x 6.8" (5.3 x 2.5 x 17.3 cm)
- Weight (shipping): 0.25 lb (1.0 lb) [0.11kg (0.45kg)]
- TL925 shipped with RJ45 to RJ45 Link Cable and SC12 cable

# CR9000 to PC Bus Interface

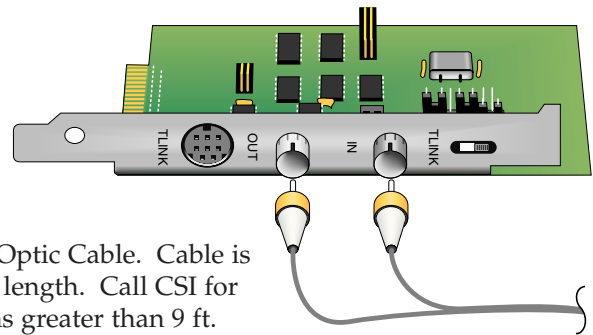
## Model BLC100

The BLC100 Bus Link Card is required for direct communication between the CR9000(C) and the main bus of a computer. The BLC100 converts the computer's bus protocol to the CR9000's Tlink high speed protocol. The BLC100 is designed for use in an ISA bus slot on a PC or laptop computer. It can be used with either a direct Tlink connection cable or with a CSI provided fiber optic cable for complete isolation between datalogger and PC. The user sets a switch on the card for the specific cables in use.

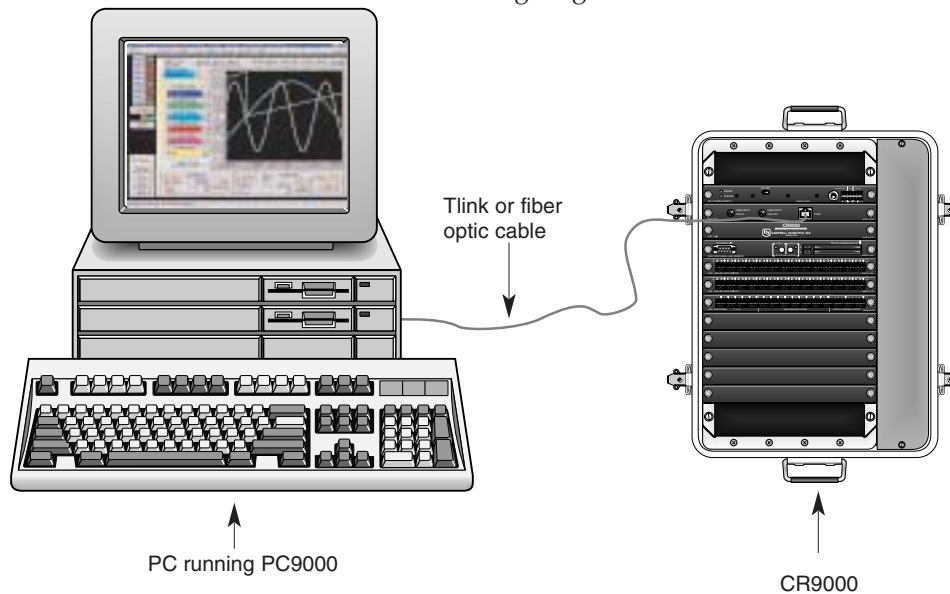


Tlink cable. Cable is ~ 9 ft in length  
Call CSI for lengths greater than 9 ft

A connection cable is required; available options are a fiber-optic cable (provides isolation between computer) and CR9000 or a Tlink connection cable (see illustrations at right).



Fiber Optic Cable. Cable is  
9 ft in length. Call CSI for  
lengths greater than 9 ft.



### Specifications

- Power: Drawn from the PC
- Operating temperature range: Limited to that of the PC
- Size: Small ISA bus slot required
- Weight (shipping): 0.5 lb (2.0) lb [0.23kg (0.9kg)]



**CAMPBELL SCIENTIFIC**  
CANADA CORP.

11564 - 149 street - edmonton - alberta - T5M 1W7  
tel 780.454.2505 fax 780.454.2655  
www.campbellsci.ca

Copyright © 1995, 1997  
Campbell Scientific, Inc.  
Printed January 2000