

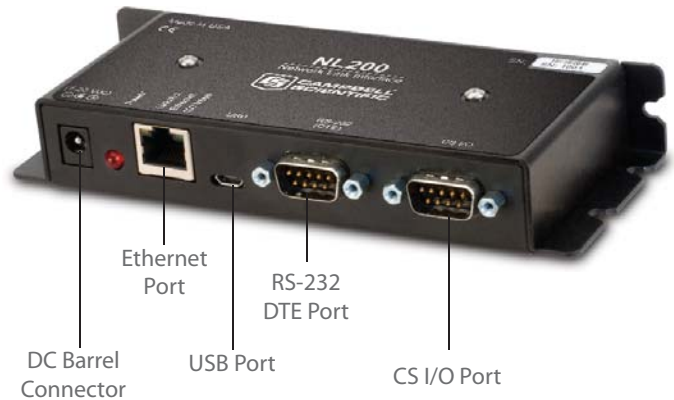
NL200

Network Link Interface



Campbell Scientific's NL200 is a powerful network link interface that provides a wired Ethernet network connection to dataloggers and peripherals. It allows our dataloggers, as well as other serial devices, to communicate over a local area network or a dedicated Internet connection.

Additionally, the NL200 supports sophisticated networking capabilities, especially when used in PakBus networks with PakBus® devices. For example, with the NL200, multiple PakBus clients can be connected to a single datalogger at the same time.



Features/Benefits

- Extremely low power consumption (50 mA)
- Ethernet to CS I/O bridging that provides direct access to the internal TCP/IP stack in the CR800, CR850, CR1000 and CR3000 dataloggers
- Serial server functionality for networking Campbell Scientific devices as well as third-party devices
- PakBus routing

Ordering Information

Network Link Interface

NL200 Network Link Interface—shipped with an SC12 cable for connecting to the datalogger's CS I/O port, and hardware for mounting to an enclosure backplate

Power Peripherals

One of the following is required to power the NL200.

- 15966** AC/DC adapter allows ac power to serve as the power source for the NL200. It is often used when the NL200 is in an office next to a computer.
- 14291** Field power cable allows the NL200 to be powered from a suitable 12 Vdc battery.
- 14020** Field power cable CS I/O to 12 Vdc Barrel Plug that allows the datalogger's power supply to be used.

Serial and Ethernet Cables

- 10873** DB9 Female to DB9 Male Cable (6 feet)—connects the NL200 to the datalogger's RS-232 port
- 13658** Unshielded CAT5 Ethernet Cable (7 feet).

Surge Protector

28033 Ethernet Surge Protector helps protect device from electrical surges. A straight-through Ethernet cable is required to connect the 28033 to the NL200. Another Ethernet cable is used to connect the 28033 to the computer or hub.

Specifications

Communication Rate

RS-232 Port:	1200 to 115.2k bps
CS I/O Port:	9600 to 460.8k bps
Ethernet:	10/100 Mbps

Power Connector: DC Barrel

Power Requirements: 7 to 20 Vdc (not powered via CS I/O or USB)

Current Drain: 50 mA active @ 13 Vdc;
2 mA forced standby available when using Ethernet-to-CS I/O Bridge Mode

Temperature Range: -25° to +50°C

Configuration: Device Configuration Utility over USB or Ethernet;
Telnet console over Ethernet

CS I/O Port: SDC 7, 8, 10, or 11 (does not support ME)

RS-232 Port: DTE

USB Port: Micro-B

Ethernet Port: IEEE 802.3, Auto-MDIX, IPv4, TCP, DHCP, Ping, Telnet, TLS, PakBus

Dimensions: 16 x 6.73 x 2.54 cm
(6.3" x 2.65" x 1")

Weight: 177 g (6.3 oz)

Compliance

RoHS Compliant

Magnetic Isolation, ESD and Surge tested

CE Compliance: Meets requirements for Class B device under European standards

Application Of Council Directive(s): 2004/108/EC

Standard(s) to which Conformity is Declared: EN61326-1;2006

