

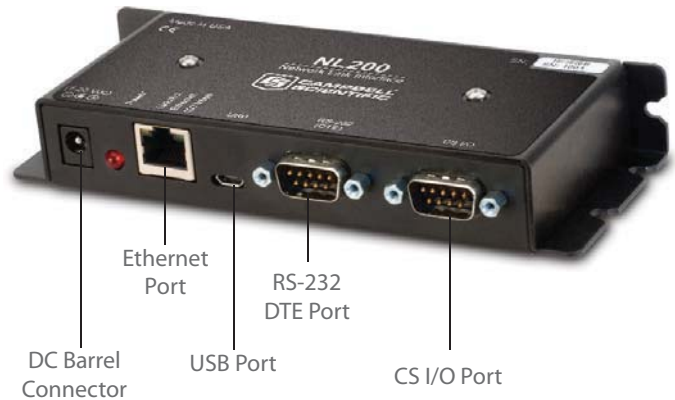
NL200

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)—used when the cable is run from a hub to the NL200

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

