

NL100

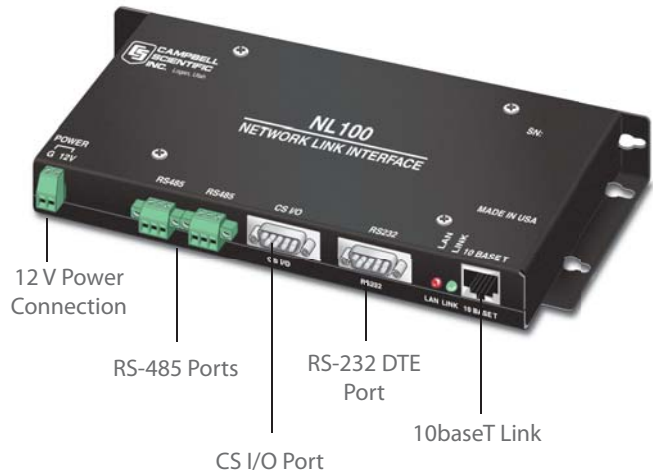
Network Link Interface



Campbell Scientific's NL100 allows our dataloggers to communicate over a local area network or a dedicated Internet connection via TCP/IP. This 10baseT Ethernet interface is compatible with all of our dataloggers and can be connected to either the datalogger's CS I/O port or RS-232 port. In certain configurations, the NL100 may be compatible with Modbus systems (contact Campbell Scientific for details).

The NL100 mounts directly to an enclosure backplate. It may be located several miles from the datalogger by using another communications device such as short-haul modems, RF modems, or the MD485 multidrop interface.

PC400, LoggerNet, and RTDAQ software packages support the NL100. Typically, the interface is configured using our Device Configuration utility (DevConfig), which is bundled in PC400, LoggerNet, and RTDAQ. DevConfig can also be downloaded, at no charge, from www.campbellsci.com/downloads. Customers may change the NL100's settings via TCP/IP, once the interface has a working IP address (complete instructions are provided in the NL100 Operators Manual).



Each NL100 requires a static IP address. Please request assignment of static IP addresses from your network administrator prior to NL100 purchase—especially if your organization uses servers running DHCP protocol.

Ordering Information

10baseT Ethernet Interface

NL100 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

Accessories

- 10873** DB9 Female to DB9 Male Cable (6 feet)—connects the NL100 to the datalogger's RS-232 port
- 13657** Standard DB9 Null Modem Cable (6 feet)—required to configure the NL100 from a PC's RS-232 port
- 13658** 10baseT Ethernet Cable (7 feet)—used when the cable is run from a hub to the NL100
- 13659** 10baseT Ethernet Crossover Cable (7 feet)—required to configure the NL100 directly from a PC's Ethernet port
- 13947** Wall transformer 12 Vdc, 1.0 A with pigtails that connects the NL100's 12 V and G power terminals to an ac power source (6 feet)
- 28033** Ethernet Surge Protector helps protect device from electrical surges. A straight-through Ethernet cable is required to connect the 28033 to the NL100. Another Ethernet cable is used to connect the 28033 to the computer or hub.

Specifications

Communication Rate

- RS-232 DTE Port:** up to 115.2 kbps
- RS-485 & CS I/O Ports:** up to 38.4 kbps

Power Requirements:

12 Vdc supplied via 13947 wall charger or datalogger's 12 Vdc power supply

Typical Current Drain:

~140 mA continuous

Temperature Range:

-25° to +50°C

EMI & ESD Protection:

Meets requirements for a class A device under European Standards
Application of Council Directive(s):
89/336/EEC as amended by
89/336/EEC and 93/68/EEC
Standards to which conformity is declared:
EN55022-1;
1995 and EN50082-1: 1992

Dimensions:

23.5 x 10.8 x 2.54 cm
(9.25" x 4.25" x 1")

Weight:

377 g (13.3 oz)

