



## Adds Connectivity

Connects dataloggers to LAN or Internet via Ethernet

### Overview

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).

### Benefits and Features

- › Compatible with most Campbell Scientific data loggers
- › Supported by PC400 and LoggerNet
- › Connects a data logger to a network

### Technical Description

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/](http://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.

### Specifications

|                       |   |
|-----------------------|---|
| Power Requirements    | 12 Vdc (supplied via 13947 wall charger or data logger's 12 Vdc power supply) |
| Typical Current Drain | ~140 mA (continuous)  |
| Operating Temperature | -25° to +50°C   |

|            |  |
|------------|--|
| Dimensions | 23.6 x 10.9 x 2.5 cm (9.3 x 4.3 x 1.0 in.) with mounts |
| Weight     | 363 g (13 oz)  |

## Communication Rate

RS-232 DTE Port Up to 115.2 kbps

RS-485 and CS I/O Ports Up to 38.4 kbps

## EMI and ESD Protection

European Standards 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

For comprehensive details, visit: [www.campbellsci.eu/nl100](http://www.campbellsci.eu/nl100) 



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