

2001C Neon Remote Terminal – Terrestrial

- Internet enabled
- Up to 5 years battery life depending on reporting schedule
- Expandable via the Starlogger interface
- SDI-12 interface for connection to a wide range of low-power instruments
- On-board digital and analogue interfaces for direct connection to sensors and other instruments



The NRT Terrestrial 2001C is a small self-contained unit which connects to sensors in the field, collects readings from those sensors, and transmits the collected data to a central server via a cellular telephone network.

The Neon central server system is provided on a Neon Data Service basis and on a Neon Client System basis and provides a central computer system to monitor and receive data from many Neon NRT units in the field.

The NRT Terrestrial 2001C terminal is designed to automate collection of remote data from environmental

monitoring, industrial measurements, and utility metering via GSM/ GPRS/ CDMA/ WCDMA and NextG cellular networks from any location within the cellular network coverage area.

Fully bi-directional communications are possible via the Neon server. Data can be collected directly and the NRT Terrestrial 2001C can be programmed from any internet connection.

The NRT Terrestrial 2001C supports integrated logging or automated collection of data from an external datalogger.

Inputs include analog, digital and SDI 12 datalogger interface standard. There is also an option for Modbus support, a partial implementation of the Modbus protocol which allows for extract data (get) and place data (put) from/to a specific register within the Modbus RTU on an RS485 connection. (Further details on request)

Physical specifications

Material:	Anodised aluminium
Size:	112 mm x 62 mm x 50 mm (HxWxD)
Weight:	400 grams (including battery pack)
Operating temperature:	-20 °C to 60 °C. Not affected by humidity
Antennae:	External stubb, optional external whip antenna

Electrical specifications

Battery:	3.6V 13Ah lithium (non-rechargeable)
Battery life:	5 years (based on daily schedule)
External power:	6V to 16V DC input available if required
Instrument power:	Continuous 3.6V nom (20mA max) plus 2.5V ref (5mA max)
I/O:	2 x analog inputs – 12 bit resolution 1 x counter input – 16 bit 3kHz or 3–5V DC signal 1 x open collector output 1 x HSIO (16 x 16 bit bi-directional, synchronous data) channel
Serial Comms:	RS-232C (300 to 38 400 baud)
SDI-12:	SDI-12 V1.3 recorder (1200 baud smart instrument channel)
Modbus:	RS485 Modbus Interface

Integrated logger specifications:

Storage memory:	15 000 readings – non-volatile flash memory
Time clock:	Crystal regulated, +/- 10 seconds/month – automatically network synchronised
Scan rates:	Programmable from 1 second to 5 minutes
Log intervals:	Programmable from 1 second to 24 hours



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