

2011C Neon Metering Module – Terrestrial

- Internet enabled
- Compact case with simplified external wiring
- Up to 5 years battery life depending on reporting schedule
- Almost unlimited data storage
- 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 / instruments



The NMM Terrestrial is a small self-contained unit in a compact case 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 NMM Terrestrial 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 NMM Terrestrial can be programmed from any internet connection.

The NMM Terrestrial supports integrated logging or automated collection of data from an external datalogger.

It's built-in modem supports packet data, and SMS communications. It has long battery life and low operating costs through use of advanced microcontroller technology.

Physical specifications

Material:	Polycarbonate
Size:	85 mm x 165 mm x 56 mm (HxWxD)
Weight:	350 grams (including battery pack)
Operating temperature:	-20 °C to 60 °C. Not affected by humidity
Antennae:	Internal stub, 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:	5V unregulated supply (5mA max) plus 2.5V ref (5mA max)
I/O:	4 x analog inputs – 12 bit resolution 1 x counter input – 16 bit/3kHz, 3–5V DC signal (included) 3 x counter inputs 8 bit/300Hz, 3–5V DC signal (option) 1 x open collector output 1 x HSIO (16 x 16 bit bi-directional, synchronous data) channel
SDI-12:	SDI-12V1.3 recorder (1200 baud smart instrument channel)

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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