

195-NL32 Data Logger

The 195-NL32 NovaLogger is a rugged instrument designed to operate in the extremes of cold and hot weather experienced worldwide. As the key component of a meteorological system, it collects and stores data from many types of sensors. Stored data is uploaded to a USB flash drive or accessed through the RS232 serial port or Ethernet port. Real-time data is also available through these ports.

The NovaLogger is compatible with voltage and current output sensors, thermistors, and some serial output type sensors. Plug & Measure™ technology is available for selected sensors, making setup easier. Other sensor types are programmed through a menu selection and parameter entry process.

Features

- 32 bit processor
- 8 MB internal memory
- 6 GB capacity USB port
- RS232, RS422, RS485, USB and Ethernet ports
- 15 analog channels
- 2 dedicated wind speed/direction channels
- 1 rain accumulator channel, 2 alarm outputs



195-NL32

Applications

- Agriculture
- Meteorology
- Solar Energy



195-NL32N with Accessories

Ordering Information

195-NL32 Data Logger in Stand-Alone Enclosure

with 6' serial cable, 6' USB cable, 100-240 Vac adapter with 3' cable

195-NL32N Data Logger in NEMA-4X Fiberglass Enclosure

with 6' serial cable, 6' USB cable, 100-240 Vac battery charger with 22" cable,

12 Vdc/7Ah battery, and mast mounting hardware

195-NL32STR **Graphical Display Software**

195-NL32STR-H HTML Option

320-600-C Solar Panel Battery Charger, 10W

with regulator and mounting hardware

395-E Sunshield Assembly for NEMA Enclosure

Envi	ronm	ental

Operating temperature range -40 to +85°C
Storage temperature range -60 to +85°C
Humidity 0 to 90% RH
Vibration 10-500 Hz to 2 G

Power

Voltage range 9-35 VDC (40 VDC absolute maximum) reverse polarity protected

Peak current 80 mA at 12 VDC (all ports active) protected by 2A fuse

Nominal current 45 mA at 12 VDC Sleep mode current 75 uA at 12 VDC

Battery life > 10 years for memory and clock

Analog Inputs

Voltage input channels 16 at 14-bit resolution (one channel dedicated to battery monitor)

Voltage input ranges 25mV, 50mV, 100mV, 250mV, 500mV, 1V, 2.5V, and 5V

Current input channels 1 at 14-bits resolution

Current input ranges 0.25uA, 10 uA, 40 uA, 100 uA, 1 mA

Temperature input channels 15 at 14-bit resolution

Temperature input range -50 °C to +60°C with 10K ohm J-type thermistor

Wind speed (AC or DC pulsed) 2 channels at 1400 Hz each
Wind direction 2 channels at 10 bits resolution

Digital Inputs/Outputs

Rain input Pulse counter rain gauge input, 12 Hz max

Alarm outputs 2 open collector high/low threshold outputs. (20Vdc, 2A max)

Communications Ports

RS-232/422/485 ports 4 fixed RS-232 ports, 6 software configurable multi-protocol ports

Modem port One RS-232 with RTS/CTS, switched modem power

USB port One B-type USB port

Memory port One A-type USB port, 6GB capacity

SDI-12 port One standard compliant port (not supported in current firmware)

Ethernet port 10/100 Base TX

WiFi port IEEE 802.11 b/g (not supported)

Features

Calendar clock Date, time, leap year, 2 time-of-day alarms

On-board data memory 8 MB non-volatile flash

Dimensions (195-NL32) 7-13/16" x 5-5/16" x 2" (198 x 135 x 51 mm) Dimensions (195-NL32N) 15" x 11-1/4" x 5-3/4" (381 x 286 x 146 mm)

Weight / Shipping (195-NL32) 2.5 lbs / 5 lbs (1.13 kg / 2.27 kg)
Weight / Shipping (195-NL32N) 16 lbs / 20 lbs (7.26 kg / 9.07 kg)

