

3004MO/3006MO

NEON REMOTE LOGGER STAND-ALONE



neon



MODEL MO



The 3004MO/3006MO Neon Remote Logger is a Neon Remote Logger, housed in a polycarbonate case which has a smaller form factor than the standard metal enclosure 3004. 3004MO/3006MO has the option of working in Starlog emulation mode making transition from old 8010 micrologger to new 3004MO/3006MO stress-free.

The 3004MO/3006MO Neon Remote Logger stand-alone connects to sensors in the field, collects readings from those sensors, logs the sensor data and provides control functions.

The 3004MO/3006MO Neon Remote Logger stand-alone is programmed in the field with a Unidata standard program called a scheme. The scheme specifies how often and for how long the datalogger should collect data from the sensors and how often the data should be collected. Control outputs are also set up in the scheme by setting up custom events.

A wide range of sensor types are supported, for example, analog sensors, frequency counters, digital inputs as well as Modbus and SDI-12. Control of external equipment (such as triggering a relay when a user defined event occurs, or initiating a shutdown), can be accomplished via Open Drain FET output.

Sensors are connected to the logger via pluggable terminal blocks, allowing for easy removal of the logger if servicing is required.

SPECIFICATIONS

PHYSICAL SPECIFICATIONS	
MATERIAL:	Polycarbonate
SIZE:	L190mm x W80mm x H55mm, 300g
OPERATING TEMPERATURE:	-20° to +60°C. Not affected by humidity
ELECTRICAL SPECIFICATIONS	
EXTERNAL POWER:	9 to 30V DC
CURRENT DRAW:	50µA Standby
RTC BACKUP BATTERY:	3.6V Li Coin Cell (5 year life)
INTERNAL POWER:	3.6V Lithium D Cell
INSTRUMENT POWER:	5V, 12V or 18V regulated, 80mA (user selectable)
INSTRUMENT REFERENCE VOLTAGE:	5V 10mA Max
ANALOG CHANNELS:	3004: 4 Single ended (max) or 2 Differential (max) 3006: 6 Single ended (max) or 3 Differential (max) 24 bit resolution, 4 user selectable gain ranges 1: 0-5V, 4: 0-1.25V, 16: 0-312.5mV, 128: 0-39.0625mV
MODBUS:	1 x independent channel, RS485, RTU or ASCII protocol, 57600 baud (max), Functions 01, 02, 03, 04, 05/15, 06/16
SDI-12:	1 x independent channel, SDI V1.3 Compliant, instrument and recorder modes supported
UNIDATA HSIO:	High speed serial interface, 16 channels, bi-directional

COUNTERS 3004:	2 x 16 bit, DC to 20kHz potential free contacts or 0 to 5V DC digital input (C0, C2); 2 x 16 bit, DC to 300Hz potential free contacts or 0 to 5V DC digital input (C1, C3)
COUNTERS 3006:	1 x 16 bit, DC to 20kHz potential free contacts or 0 to 5V DC digital input (C0); 1 x 16 bit, DC to 300Hz potential free contacts or 0 to 5V DC digital input (C1)
DIGITAL OUTPUT:	1 x Open Drain FET, 30V DC, 250mA max
CONFIGURATION PORT:	USB B Micro Port and SD Micro Card
ACCELEROMETER:	Senses changes in logger orientation
BAROMETER:	260-1260hPa Absolute Digital Output
INTEGRATED LOGGER SPECIFICATIONS	
STORAGE MEMORY:	7.5Mbytes Flash (non-volatile), 3.75 Million log data points
MEMORY EXPANSION:	SD card, micro size, 32Gbyte maximum capacity, 16 Billion log data points
SCAN RATE:	Programmable from 1 second to 5 minutes
LOG RATE:	Programmable from 1 second to 24 hours
TIME CLOCK:	Battery Backed Real Time Clock (RTC), Accuracy +/-10 seconds/month (non-Neon version), locked to server time clock (Neon version)
CPU:	16 Bit, 20MHz, Ultra Low Power