



## NRL Stand Alone Data Logger 3004-MO



The 3004MO/3006MO Neon Remote Logger is a 4 or 6 channel self contained Data Logger, housed in a polycarbonate case which has a smaller form factor than the standard metal enclosure 3004. This model is designed to be configured and downloaded in the field through direct connection to a laptop using RS-232 communications via the on board USB B micro port.

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 including 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			2 x 16 bit, DC to 20kHz potential free contacts or
MATERIAL:	Polycarbonate	COUNTERS 3004:	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)
SIZE:	L190mm x W80mm x H55mm, 300g		
OPERATING TEMPERATURE:	-20° to +60°C. Not affected by humidity	COUNTERS 3006	1 x 16 bit, DC to 20kHz potential free contacts or 0 to 5V DC digital input (C0);
ELECTRICAL SPECIFICATIONS		COUNTENS 5000.	1 x 16 bit, DC to 300Hz potential free contacts or
EXTERNAL POWER:	9 to 30V DC		1 to 5v DC digital input (CT)
CURRENT DRAW:	50µA Standby	DIGITAL UUTPUT:	I X Upen Drain FET, 30V DC, 250MA max
RTC BACKUP BATTERY:	3.6V Li Coin Cell (5 year life)	CONFIGURATION PORT:	USB B Micro Port and SD Micro Card
INTERNAL POWER:	3.6V Lithium D Cell	ACCELEROMETER:	Senses changes in logger orientation
INSTRUMENT POWER:	5V, 12V or 18V regulated, 80mA (user selectable)	BAROMETER:	260-1260hPa Absolute Digital Output
INSTRUMENT	5V 10mA Max	INTEGRATED LOGGER SPECIFICATIONS	
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 0 to 5000mV (gain=1) to 0 to 39mV (gain=128)	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
MODBUS:	1 x independent channel, RS485, RTU or ASCII protocol, 57600 baud (max), Functions 01, 02, 03, 04, 05/15, 06/16	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)
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	CPU:	16 Bit, 20MHz, Ultra Low Power

Streamline Measurement Ltd, 01457-864334, sales@streamlinemeasurement.co.uk, www.streamlinemeasurement.co.uk