3004MC
NEON METERING LOGGER – CELLULAR

MODEL A-MC

The 3004MC Neon Metering Logger Cellular is a Neon Metering Logger in the 3004M range which has a smaller form factor than the standard metal enclosure 3004. It is housed in a polycarbonate case. It utilises the Cellular phone networks as its method of sending sensor data from the field to the Neon Server.

The 3004MC Neon Metering Logger Cellular connects to sensors in the field, collects readings from those sensors, logs the sensor data, provides control functions and also transmits the collected data to a central server via a Cellular phone network.

The 3004MC Neon Metering Logger Cellular 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 sent to the server. 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 Relay contacts and 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
WEIGHT:	300g
OPERATING TEMPERATURE:	-20° to +60°C. Not affected by humidity
ANTENNAE:	On board stub antenna, optional external whip antenna

ELECTRICAL SPECIFICATIONS	
EXTERNAL POWER:	9 to 30V DC
CURRENT DRAW:	50µA Standby
INTERNAL POWER:	3.6 Volt Lithium D Cell
INSTRUMENT POWER:	15V or 18V regulated, 80mA (user selectable)
ANALOG CHANNELS:	4 Single ended (0-5V DC) with 24 bit resolution

MODBUS:	1 x Modbus RS485 RTU protocol, 57600 baud max
SDI-12:	1 x SDI V1.3 Compliant, instrument mode
COUNTERS: 2	16 bit, DC to 3kHz potential free contacts or 0 to 5V DC digital input (C0); 16 bit, DC to 300Hz potential free contacts or 0 to 5V DC digital input (C1)
DIGITAL OUTPUTS:	1 Open Drain FET, 30V DC, 250mA max
CONFIGURATION PORT:	USB Port
OPERATING FREQUENCIES:	2G, 3G and 4G cellular networks
SCAN RATE:	Programmable from 1 second to 5 minutes
LOG RATE:	Programmable from 1 second to 24 hours
ACCELEROMETER:	Optional

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