

YDOC ML417

4G Remote Telemetry Unit

The YDOC MLN417 is a remote telemetry unit designed specifically for environmental monitoring.

The MLN417 is a flexible, powerful RTU which feature a 4G modem for transmission of data over the mobile data network. It features a world band modem that supports use of both Cat M1 and NBloT/NB1.

YDOC ML417 RTU

The ML417 is compact and power efficient. Despite its small size it is packed with advanced features.

The RTUs feature 2 off pulse inputs, 2 off 4-20mA inputs, 2 off analogue voltage inputs as well as a Serial input which can be used with SDI-12 or MODBUS sensors (both RS232 and RS485). Readings are stored on an 8GB micro SD card and can be manually downloaded. The standard form of data transfer is via automated FTP connection to the Sensori cloud server. But users can also nominate to send data via FTP, TCP, or MQTT to any platform of their choice. Alarms can be notified via Email or SMS. The log rates and data transfer rates are programmable over a wide interval.

The advanced features in the MLN417 include the ability to add calculated channels - which can combine values from any of the logged channels using a range of mathematical functions - as well as time based aggregation - allowing you to calculate average, maximum, minimum and total values for a period.

The RTU is programmed via a Mini USB port. Sensor connections may be made via cable glands or waterproof connectors.



ACCESSORIES AND EXPANSION

The RTU's accessory port allows you to connect a range of additional devices, such as a Camera, GPS, Iridium Satellite modem. An expansion port allows the RTU capacity to be included further. By plugging in the required expansion board, users can add more analogue channels, bridge interfaces, differential amplifiers or additional serial ports.



POWER OPTIONS

The ML417 may be fitted with a number of different covers, each which offers a different power supply option. The PV cover includes a 1W solar panel. The LFP option uses a 5W solar panel to charge a set of LiFePO4 (LFP) batteries. The DC-LI cover allows the unit to be powered by a single 13 AH 3.6 V lithium thionyl battery and the DC-3LI by up to 3 of these cells. The SLA charge board allows you to use a 3 to 30AH battery and 5 to 30W solar panel. If you have a requirement for a local display, the TFT cover provides a 2" TFT display which shows the latest sensor readings.



Ordering

MLN417ADS-xx YDOC MLN417 Remote Telemetry Unit with analogue SDI-12, MODBUS and pulse
xx = power option PV, LFP, LI, 3LI, DC-AA, SLA

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Telemetry Over Internet Protocols