

Application Note - Remote communication - SMS your *dataTaker* data logger

Customer Requirements

CoolPac are developing a revolutionary new product that allows life saving pharmaceuticals, requiring low stable temperatures, to be shipped without refrigeration. The client needed to undertake extensive testing to validate their product. There was a need to monitor changes in temperature. Also when necessary, the ability to abort testing or make changes to the test preferably with remote communications, that is without physical access to the PC or the data logger, making the process easier and more cost effective.



Equipment

DT500

dataTaker SMSX Modem

DeLogger™4

GSM/GPRS Mobile Phone

Sensors

RTD Sensors

Datataker Solution

The *dataTaker* DT500 was selected for its ability to accept 10 x differentially connected thermocouple sensors to monitor and log internal temperatures of the products being tested. All thermocouples were calibrated to traceable standards and any linearisation errors were corrected using the DT500's user programmable functions. With *dataTaker's* SMSX modem connected to the DT500 the client was able to send a simple SMS message with their GSM/GPRS mobile phone and get a "snapshot" of the temperatures during the trials.

The *dataTaker* data logger was also set up to send an SMS message if there was an alarm triggered. (Where there was a need to abort the test or make changes, alarm thresholds can be changed, the speed of measurement can be changed, digital channels can be turned on or off this was also done by a sending an SMS message back to the *dataTaker* data logger.)

Each trial was run for a period 24 hours per day, 5 days per week. The ability to access the data anytime anywhere via mobile phone was a huge benefit to the client. With modification of the alarm thresholds and phone numbers for alarms also being controlled directly via SMS. If the SMS message was not responded to, a message was then sent to the next phone number in line within the nominated time.

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