

OmniText -TDP4 GSM Logging & Alarm Unit

Features

- SMS Text Alarm Unit
- Data logger with 1 min - 24 hour log interval
- Logged data automatically sent to your mobile or web server
- 4 inputs, for digital state, or temperature (-55 to +125 deg C) or pulse count.
- Low power battery operation
- Battery life up to 1 year without charging
- Re-chargeable battery
- Optional external 5.5 - 15v DC supply
- Sends daily status message
- Low battery alarm

Applications

Logging and alarm for:

- Sever room temperature
- Cold stores and freezers
- Refrigerated vehicles
- Pharmaceutical storage
- Water meter - remote logging
- Gas meter - remote logging
- Electricity meter - remote logging
- Building security



SIM:	Externally accessible via tray.
Antenna	Quad-band GSM stub via SMA connector.
Inputs	4 inputs programmable for temperature, digital or pulse inputs
Temperature Input	Dallas digital temperature sensor range -55 to +125 deg C. resolution 0.2 deg C, accuracy 0.5 deg C, cable length to suit
Digital Input	Open collector digital state for dry contacts or 0-5v signals
Pulse Input	Pulse counter input, for relay, reed switch or TTL level pulses, pulse width 50-250mV, maximum frequency 5 Hz, totalising or resetting-counter.
Outputs	1 x open collector output and 3 x voltage outputs (max 12v from supply)
Battery Type Internal	2400mAh Lithium re-chargeable cell.
External supply	5.5 – 15 Vdc
Battery Current (internal)	2400mAh Lithium re-chargeable cell.
Current from 12 volt supply	Low power mode ~4mA 'Always On' mode ~30mA average

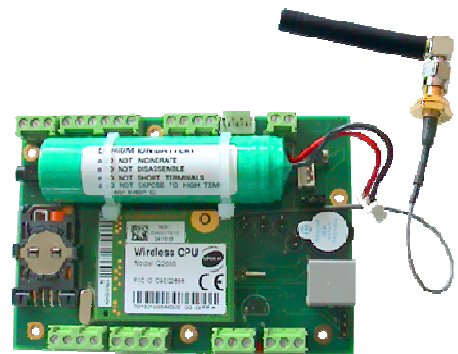
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Typical programming commands:

.M01<moble number> -	programs mobile number position 1
.M10<moble number> -	programs mobile number position 10
.M14<moble number> -	programs mobile number to send data to the web server
.L<text> -	programs the unit with the location name for text messages
.G<text> -	program the daily message text
.U<text> -	sets the unit ID (must be an integer)
.cz	turns off the SMS message counter
.I1T<text >#<text>#<text> -	set channel1 for temperature input with high low and normal text messages
.Jx<low temp>#<high temp>#<hyst>	set the low and high temperature thresholds with hysteresis
.Rx	set the input channel as a resetting counter
.Lx	set the input channel as a totalising counter
.TL<log rate>#<wake interval> -	programs the sample rate interval for data logging

Status commands:

.S?	General status request
.M?	List the mobile numbers
.N?	Display power mode
.I?	Display inputs and configuration text
.V?	Serial number and firmware version
.L?	Display location name
.J?	Display alarm settings



Programming:

Programmed by text message from any one of the mobiles whose number is stored within the system. Optional PC program adapter for use by installer. The system only accepts system commands including programming commands from mobile phones whose number is stored within the system.

Capacities:

Mobile Phone Numbers: The system stores up to 10 mobile phone numbers. Each of the mobile numbers stored within the system will receive the alarm text messages. The mobile number stored in memory location 1, will receive the daily health message.

Logger message format:

Unit_ID	Date_Time	Log Interval (minutes)	No Channels Logged	Val 1	Val2	Val3	Val4	Val5	Val6	Val7	Val8	Val24
DD8923	2410091530	030	2	238	057	237	059	236	058	235	057	055

Instrument with unit ID DD8923 sends an SMS message on the 24/10/09 at 15:30, logging 2 temperature channels, one ambient, one cold store with readings of around 23.7 degrees and 5.7 degrees respectively. Unit send 24 readings which represents 12 hours of data. Actual text message: DD8923,2410091530,030,2,238,057,237,059,236,058,235,057,055

Typical alarm and status message formats:

Alarm Type	Message Text	Alarm Type	Message Text
High temperature alarm	high (28.1) at Perth server room	Battery health status	Battery OK at Perth server room
Temp back within range	normal (24.9) at Perth server room	External power status	External power restored at Perth