



E006: **Temperature monitoring devices**

PQS code: **E006/061**

Description: Remote Temperature Monitoring Device

Manufacturer's ref: VM1000

Manufactured in: South Africa

Company: IKHAYA Automation systems

Address: Ikhaya Automation Systems
Kwa Zulu Natal
South Africa

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Specifications

Product type:	Remote Temperature Monitoring System	Display medium:	LCD or any internet enabled device
Mode of operation:	Electronic	Weight	0.45 kg
Minimum temperature:	-30°C	Main material:	ABS PLASTIC
Maximum temperature:	+55°C	Dimensions:	13.5 X 10.0 X 5.0

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy:	+/- 0.5°C	Min logging interval:	1 minute
Power source:	Mains + backup battery	Alarm type:	Not applicable
Battery type:	Li-ion	User interface:	Web based + LCD
Battery shelf life:	3 YEARS	Programmability:	Factory or online configurable
Activated life:	36 months	IP rating:	IP54
Memory capacity:	90 days using internal memory		

Ikhaya Automation Systems provides a plug & play Remote Temperature Monitoring Solution (RTMS) which is used to monitor Fridges, Freezers, Cold Chain Logistics, Incubators, Cryo's and any other temperature sensitive environment.

A RTMS kit comes standard with:

- 1 x VM 1000 (RTMS)
- 1 x Digital Temperature Probe
- 1 x Internal Temperature & Humidity Sensor
- 1 x GPS location monitoring
- 2 x Internal Lithium Ion Batteries
- 1 x 2 Pin universal power adaptor
- 1 x Door Sensor
- 2 x Velcro Strips

We offer flexibility such as:

1. We could provide a universal sim card that suits your specific requirements or you could provide your own local sim card.
2. Interactive Display - past and present alarms can be viewed by interactive LCD display or web platform
3. The standard VM1000 can accept 4 digital probes while the radio version VM1000R can accept 4 wired and 4 wireless probes
4. The wireless probes can do Temperature & Humidity, Pulse counting or take in a 4-20mA input

The RTMS can be configured into 2 states:

Option 1
Local SMS capable standalone data logger which can download the data via USB using an intelligent user friendly PC application and alert multiple users in the event of an excursion. An SD Card will be supplied with the unit at an extra cost and the PC application will be provided free of charge to be utilize of any windows computer. No yearly fee is required for this option.

Option 2
Real-time monitoring system with interactive web service consisting of Dashboard, Reports, Alerts & Graphs, remote viewing of current status.

Alerts can be set up on all variables being monitored by the VM1000; to mention a few Temperature, Humidity, Door Status, Power Failure & etc. These alerts can be customized by device and variable name together with thresholds and specific duration periods. The alerts are Audible, SMS, Email or a combination of each/all. SMS's alerts are generated from the device itself which eliminates the use of any 3rd party sms providers.

Our dashboard is color coded depicting the status of the variable being measured while our graphing service allows you to Zoom, pan, print or save.

Automated reports are generated daily, weekly, monthly or over a customized period using our playback option. This includes:

1. Detailed summary of variables with a graph
2. Logs for the pre-defined period
3. Exceptions for variables that have exceeded their threshold
4. Alarm history for alerts that have been dispatched to it recipients

Pricing
Standard RTMS kit for a quantity of 1-49 units = \$250 at an annual service fee of \$240 using our international sim card or \$156 your own sim card

Minimum order:	1	Year base price:	2019
Quality standard:	- ISO 9001:2008 -	Pieces per carton:	1
Price per unit:	\$250: 1 -49 units	Volume per carton:	0.003 m3
	\$225: 50 - 99 units	Weight per carton:	0.7 Kg
	\$202: >100 units	Incoterms:	EXW

Verification report:	Verification laboratory:		
Current PQS status:	<i>pre-qualified ; 31 Jul 2019</i>	Valid until:	<i>May, 2020</i>

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.