

TMAS™ Wireless Telemetry System

HAVE PEACE OF MIND

HAVE TMAS SYSTEM

System Overview

TMAS is a powerful system to be used for remote monitoring and control. It consists of remote Telemetry Nodes, Web Server or PC Manager, SMS and/or Dialup connections and peripheral supports. When any of the inputs is triggered, the telemetry node can operate in a standalone mode to provide SMS alert messaging to the authorized users via GSM network. Authorized users can also send SMS to instruct a TMAS node to turn on/off equipments at remote sites. All events are logged and reported by Web Server or PC Manager.

Applications

- Mission Critical System
- Fire and Security
- M&E Facility Management
- Data Center Monitoring
- Environmental Control
- Machine to Machine
- Vending Machine
- Energy and Power Management
- Mobile Platform Monitoring

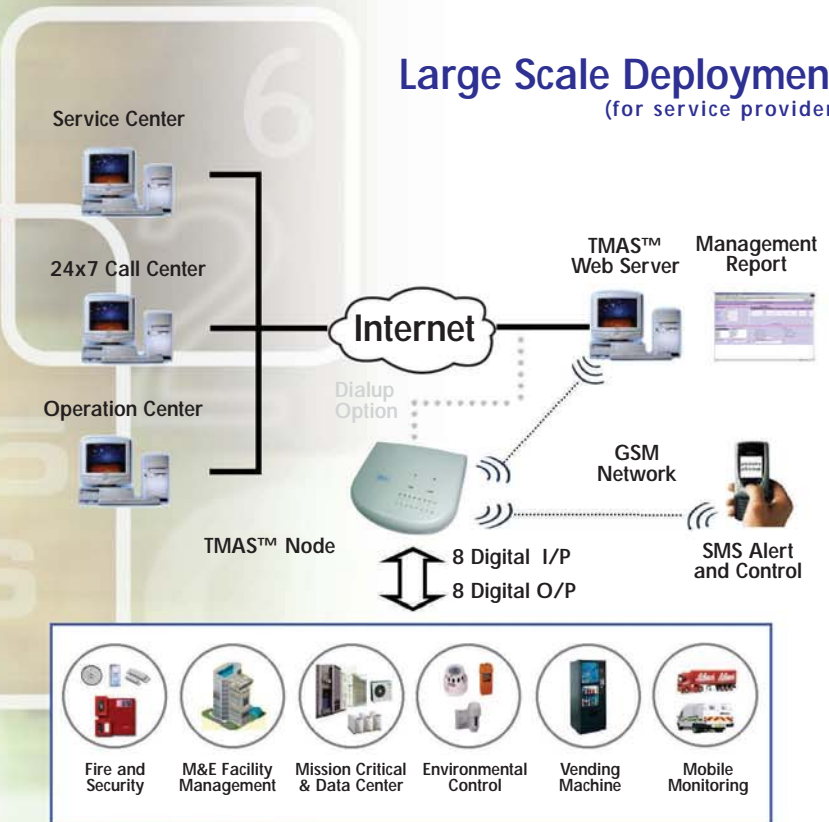
System Features

- Leverages on ubiquitous GSM Network
- Alerts messages highly customizable for each point
- Flexible settings to designate messages for different individuals
- Separate from secured proprietary networks
- Backup power for up to 4 hours of operation
- All activities logged to provide management report

Benefits

- Low cost
- Simple setup
- Highly Scalable
- Facilitates operational productivity
- Fit well for specific and unmanned monitoring
- Support highly scattered and isolated installation

Large Scale Deployment (for service provider)

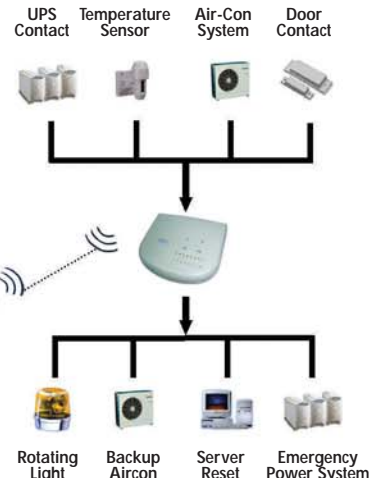


Small Scale Deployment

Example 1: Standalone Security



Example 2: Data Center



TMAS™ Wireless Telemetry System

TMAS™ Node

Hardware Features

- 8 Digital inputs with surge, voltage and current protection
- 8 Digital outputs with high current driver
- 8 LEDs onboard for alert indication
- Built in Real Time Clock
- Configurable GSM/GPRS modem
- Available ports for GSM modem, Serial Programming and Firmware upgrading
- Backup battery for at least 4 hours of operations under standby mode

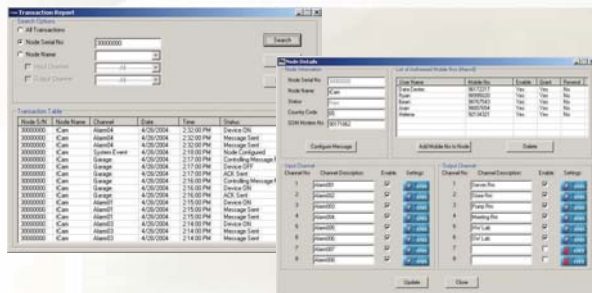


Firmware Features

- Up to max 8 mobile numbers for SMS
- Up to max 256 events logging
- Node and/or user can be remotely configured by PC or Data Center
- System Status of Node can be remotely polled by PC or Data Center
- System alerts can be in default or user defined message
- All nodes, inputs and outputs can be descriptively named
- Selectable for NC or NO input sensors.
- Configurable acknowledgement for SMS sent
- Un-used inputs and outputs can be disabled

TMAS™ PC Manager

PC Manager is a PC-based software to manage and configure TMAS nodes for small to medium size deployment. This user friendly tool is developed based on VB and Microsoft™ Access database. It just takes a few simple steps for the user to configure the node for the first time. The user can also work comfortably in his or her office to perform subsequent remote polling and remote configure task.



TMAS™ Web Server

TMAS Web Server is a web-based solution to manage the remote TMAS nodes for a large-scale deployment. It is developed based on the established ASP.NET and Microsoft SQL technology. It can be integrated with other management system to achieve a total solution such as Building Management or Mission Critical applications.

With the web-enabled services, it is very cost effective for a service provider in Facility Management, Security Management or Mission Critical Management to manage a very large-scale deployment across a country or region.



Electrical Specification	
Power	DC 9-40V
Current	500mA max (communication) 100mA max (standby)
Wireless Interface	Dual Band GSM900/1800Mhz
RF Power Output	Class 4 (2W@900Mhz) Class 1 (1W@1800Mhz)
Backup Battery	SLA 6V 1.2AH
Physical Specification	
Dimension	209.7mm x 172.35mm x 38.85mm
Weight	820grams (with GSM Modem and Backup Battery)
Casing Material	Poly-Carbonate with Matt Surface
Installation	Desktop or Wall-Mount
Color	Light Silver
Environmental Specification	
Operating Temperature	0 to +55°C

Ordering Information

TMAS Node	GSM Modem	Dialup Modem	Backup Battery	AC-DC Adapter	Serial Cable	PC Mgr TMS-Lite
TMN-1000	√	-	√	√	√	√
TMN-1001	-	-	√	√	√	√
TMN-1100	-	√	√	√	√	√
TMN-1200	√	√	√	√	√	√
TMAS PC Manager	Node Quantity	SMS Server		Dialup Server	Activity & Status Report	
		Remote Config	Remote Polling			
TMS-Lite	1	√	√	√	√	
TMS-Pro	10	√	√	√	√	
TMS-Ent	100	√	√	√	√	
TMAS Web Server	Node Quantity	SMS Server		Dialup Server	Activity & Status Report	
		Remote Config	Remote Polling			
TMS-100	100	√	√	√	√	
TMS-500	500	√	√	√	√	
TMS-1000	1000	√	√	√	√	
TMS-3000	3000	√	√	√	√	

Note: i) Customization orders and Dialup models will be available upon request.

Specifications are subjected to change for further product improvement without prior notice.



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