

GSM Telemetry

Monitoring and Control Solutions

TMN - 50T
TMN - 1000
TMN - 5000

TMAS
WIRELESS SOLUTIONS



TMAS TELEMETRY SOLUTION

- > Having problem with monitoring and controlling your systems at remote sites?
- > Tired of drilling and laying cables for remote site deployments?
- > Wanting to reduce manpower cost in managing and monitoring of scattered sites?
- > Need immediate notifications and countermeasures when serious events occur at remote site?

TMAS TELEMETRY is designed to overcome many operational, monitoring and controlling issues for scattered remote sites and provide efficient and timely management of equipments, services and facilities. Emergency events such as fire, alarm, system failure can be detected at remote sites and notification can be sent out immediately via SMS to any mobile phone for immediate attention and actions. Users can also send SMS to switch on/off different control devices that are connected to the TMAS outputs.

Managing of large scale remote deployment is also made easy with TMAS central monitoring system (CMS). Configuration and management of TMAS sites can be done wirelessly through the central monitoring system. The CMS also provides various management and reporting functions such as remote health check, remote polling of status, test report, alarm report, login report etc.

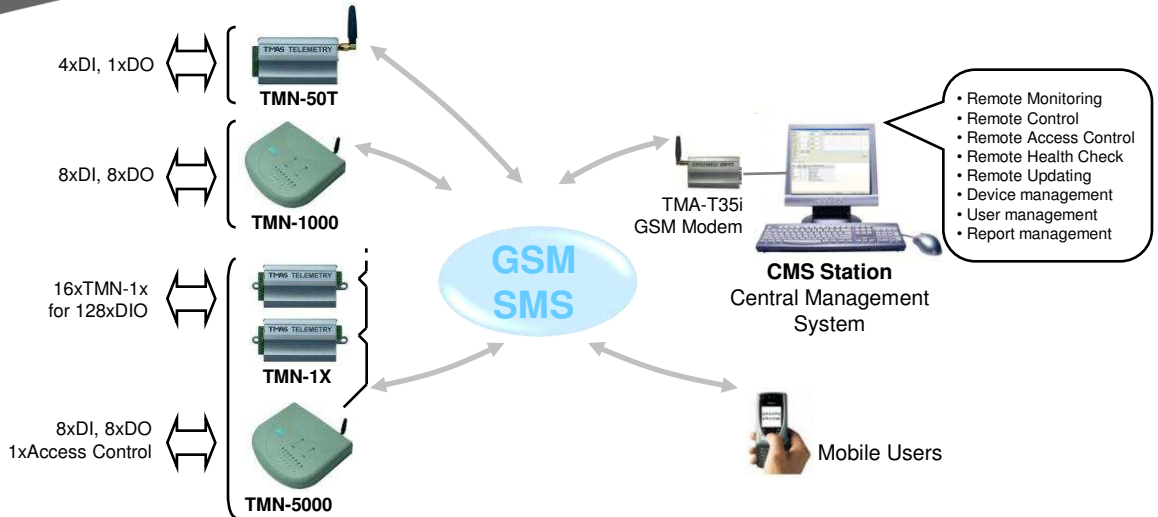
BENEFITS

- Low cost and low maintenance
- Fast, easy, scalable and flexible deployment
- Standalone operation or link to CMS
- 24 x 7 operation
- Smart system for making local decision
- Excellent tools for report generation, auditing and centralized wireless monitoring
- Reduce down time, minimize repair time
- Improve response time to alarm detection

FEATURES

- Up to 16 mobile users and one data center
- Up to 4 Escalation levels
- Resend Alert
- Back to normal alerting
- Pre-defined or user defined message
- Flexible output control by users or by alarm inputs
- Remote wireless configuration by CMS
- 4 weekly schedules to alert users on duty (TMN-x000 only)
- IO expansion via RS485 (TMN-5000 only)

Wireless GSM Telemetry & Central Monitoring Station (CMS) Concept



Technical Specifications

	TMN-50T	TMN-1000	TMN-5000
Product Features			
No of DI (Dry contact or TTL)	4	8	8
No of DO (Open collector drive)	1	8	8
No of Mobile Users to alert	16	16	16
IO Expansion (RS485)	No	No	Max 16 TMN-1X modules or max 128 I/O points
Access Control Port	No	No	1 (with interfaces for door sensor, exit PB and EM Lock)
Weekly Schedules	No	4 schedules to alert users on duty	4 schedules to alert users on duty
Resend SMS alert	Yes	Yes	Yes
Back to normal alert	Yes	Yes	Yes
Alert escalation levels	4	4	4
Wired configuration (RS232)	Yes	Yes	Yes
Wireless Configuration (SMS)	Yes	Yes	Yes
Backup battery	No	12V 0.8AH (Approx. 4Hrs excl. external devices)	12V 0.8AH (Approx. 4Hrs excl. external devices)
Health Test (to Mobile Users)	Check GSM network	Power fail, Battery weak	Power fail, Battery weak Sub-node missing, RS485 fail
Health Test (to CMS)	GSM signal strength Data synchronization	GSM signal strength, Data synchronization, Device clock Temperature, I/O status	GSM signal strength, Data synchronization, Device clock Temperature, I/O status
Wireless Interface			
GSM900/1800Mhz:	yes	yes	yes
GSM900/1800/1900Mhz	optional	optional	optional
GSM850/900/1800/1900Mhz	optional	optional	optional
RF Power	Class 4 (2W@900Mhz) Class 1 (1W@1800Mhz)	Class 4 (2W@900Mhz) Class 1 (1W@1800Mhz)	Class 4 (2W@900Mhz) Class 1 (1W@1800Mhz)
Antenna interface	SMA (50ohm) Female	SMA (50ohm) Female	SMA (50ohm) Female
Electrical Specifications			
Operating Voltage	6-40VDC	15VDC (Incl. AC/DC 15V1.6A adaptor)	15VDC (Incl. AC/DC 15V1.6A adaptor)
Current - Transmission	300mA @ 6VDC	200mA @ 15VDC	200mA @ 15VDC
Current - Standby	100mA @ 6VDC	100mA @ 15VDC	100mA @ 15VDC
Mechanical Specifications			
Operating Temperature	0 to +55°C (normal) -20°C to +70 °C (restricted)	0 to +55°C (normal) -20°C to +70 °C (restricted)	0 to +55°C (normal) -20°C to +70 °C (restricted)
Dimension (mm)	86 x 54 x 24	209.7 x 172.35 x 38.85	209.7 x 172.35 x 38.85
Weight	105g	1Kg	1Kg
Mounting	Wall or Rack (2xside mounting plate provided)	Wall or Desk	Wall or Desk
Casing Material	Extruded Aluminium	Poly-Carbonate Plastic	Poly-Carbonate Plastic
CMS Software			
Standalone operation without PC	yes	yes	yes
Operation with CMS software	PC Manager	PC Manager	PC Manager / Web Server



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