




Introducing VI-sage

-  Monitran's Internet Enabled Remote Monitor
-  Process Control
-  Data Logging and Management System

Using the power of t-mac technology, VI-sage can communicate over the internet allowing users to log-on to a web page anywhere in the world and check the status of their assets. Capable of continuously monitoring its 8 or 26 inputs and modifying its 4 or 16-outputs accordingly VI-sage sends information to operators situated anywhere in the world.

Integrating seamlessly with the other elements from the Monitran range e.g. sensors, shutdown protection systems, switchboxes, electronic multi-select boxes, cabling and connectors, VI-sage offers a total solution package from one manufacturer with the added facilities of consultancy, site survey, and installation also available.

The t-mac technology used by Vi-sage provides Machine Condition monitoring, remote data logging and programmable control functions that offer the user positive control and intervention from a remote location.

The Vi-sage web server provided by Monitran provides 24/7 access to your data through graphical reports and tabular data sheets; data can also be exported into CSV format for importing into most spreadsheet and database packages. The interface can be customised to suit any corporate or particular interface demands. Server-hosting packages are available for any period in addition to options for extended warranty packages.

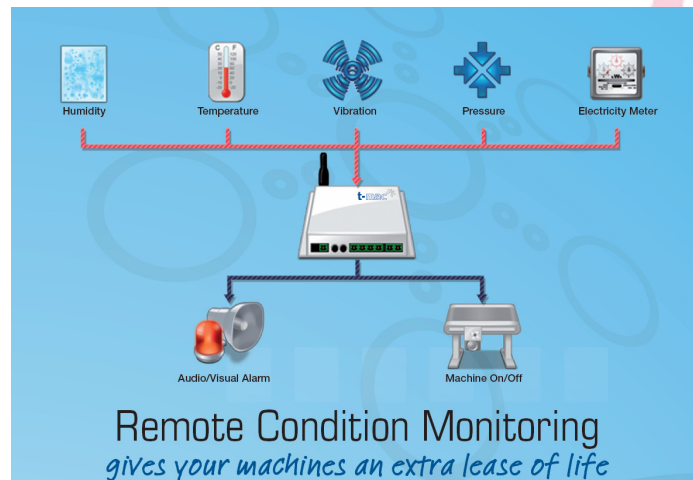
All this is made possible by a GSM/GPRS link. All settings can be altered by the user via the web site and are automatically downloaded to the Vi-sage device. Multiple users can be configured with varying access levels ensuring data and set up security.

Vi-sage has three core functions:

Remote Data logging

Remote Data Monitoring

Remote Process control



Available in 2 sizes. 8 or 26-inputs can be monitored over the Internet with data or alarm conditions collected and stored locally, then periodically uploaded to a central internet database for storage

Enables the user to view the live and historic readings taken from the unit and sent (via the Internet) to its secure web page. VI-sage also issues reports to the web page and sends SMS or email messages to dedicated personnel when a predefined parameter has been breached.

Can be fully programmed by a user to process a series of logical tasks. This function is very similar to a Programmable Logic Controller and allows t-mac® to manage complex control applications.

VI-sage Features:

Input/Outputs	12 Analogue & Digital Channels (8 inputs & 4 outputs) 42 Analogue & Digital Channels (16 inputs & 4 outputs)
Convert raw AD readings into SI units	Using table based linearization techniques
Hysteresis on conditions	Time based or value based
Complex control tasks	Using alarm set points based on input values, internal variables or timers
Alerts	SMS/Email alerts to multiple contacts
Grouped by business units	For easy management of multiple sites
Real-time clock	Synchronised automatically over the internet
Automatic failure reports	Generated to detect if a VI-sage unit has been unplugged or disconnected from your machine
XML Web services	For integration into 3 rd party solutions
Digital dashboards	Custom designed interactive front ends for ease of data assimilation
Integration with other devices	Optional customisation to communicate with almost any 3 rd party RS232/485 device inc Monitran Multi-Select
SQL database	Storage and retrieval of historic data
Exportable to CSV format	For use in spreadsheets
Displayed via Web pages	Interactive graphical format (e.g. bar charts, line charts etc)

VI-sage Hardware Specifications:

Configurable for 0-25mA, 0-10V or Thermistor. Analogue input circuits or volt free digital inputs. Configuration via small jumper	8 x configurable inputs (12-bit resolution)	22 x configurable inputs (12-bit resolution)
Pulse width modulated outputs with built in short circuit, overload and over temperature protection. Capable of controlling dimming circuits and small varying speed motor control circuits up to a current of 1.5A	4 x High side 1.5A digital pulse width modulation (PWM) outputs (FETs)	4 x High side 1.5A digital Pulse width modulation (PWM) outputs (FETs)
With built in short circuit, overload and over temperature protection. Capable of driving lamps, bulbs or external relays up to a current of 1.5A	----	4 x High side 1.5A digital outputs (FETs)
Capable of controller dampers in ventilation systems, valves on boilers or radiators, fan speed controllers and indicator lamps	----	4 x analogue 0 – 10V outputs
Capable of driving external systems., such as solenoid valves and pumps that operate on up to 240VAC	----	4 X 240VAC 5A Relay outputs
For measuring and counting pulse inputs up to 2KHz. Capable of measuring signals from devices that give a pulse output,, e.g. flow meters, tachometers	2 x Frequency inputs with counters (shared with analogue inputs)	4 x Frequency inputs with counters
Provides wireless connection to the Internet	GSM/GPRS Dual-band digital modem**	GSM/GPRS Tri-band digital modem*
Allows connection to the Internet via a standard phone line (please note a dial-up ISP connection account must be provided)	----	V22 PSTN analogue modem*
For attaching to 3 rd party devices e.g. GPS receivers, external displays, BMSs and other monitoring equipment	1 x RS248	2 x RS232
To alter settings and provide IO diagnostics to ease installation and aid with local fault-finding	1 x RS232	USB diagnostics port
For attaching external IO modules	----	1 x RS485
Provide local diagnostics information	4 x LED status panel indicators	8 x LED status panel indicators
For connecting to the Internet via a corporate LAN or via your home broadband connection	----	10 Base T Ethernet
Can be activated in response to any sensory input	Internal sounder	Internal sounder

* VI-sage can be supplied with either AV22 modem or GSM/GPRS modem, but not both (contact us for a VI-sage supplied Vodafone SIM card complete with 1MB of GPRS data-transfer per month). ** VI-sage can be supplied with either a dual-band or quad band GSM/GPRS modem (see our special rates for a MINI t-mac supplied Vodafone SIM card complete with 5MB or 10MB of inclusive GPRS data-transfer per month)

Monitran Ltd

Monitor House | 33 Hazlemere Road | Penn | Bucks | HP10 8AD | UK

Tel: +44 (0)1494 816569 Email: info@monitran.com Registered in England No. 2054040

Fax: +44 (0)1494 812256 Web: www.monitran.com Vat No. GB442 4883 40

