

Cellular Lift Station Alarm Monitor for Wastewater Treatment and Lift Station Applications (also suited well for many other monitoring applications)

The next generation Viper is the industry's most advanced, low cost cellular alarm monitor system available on the market today. Using the next generation Internet and cellular technologies, all settings can be configured Over-the-Air, eliminating costly trips to the location. The OmniSite Viper is purchased and installed for a small fraction of the price of traditional SCADA type systems. The Viper is stand-alone, self-contained, needing no additional software and minimal maintenance.

Applications

Monitoring pumping stations and lift stations, for pump runtimes and well level conditions, using float switches or an optional analog input module, with a level transducer.

Monitoring control circuits for alarm conditions, such as high temperature, current overloads, or station entry, and immediate notifications, sent via phone email or text, to facility personnel in case of alarms.

Features

- Enclosed in Nema 4X watertight non-metallic enclosure, mounting hardware included
- (5)* Universal voltage inputs
- (1) Optional 4-20mA analog input add-on module
- Transmits/Receives using Cellular GSM
- Magnetic key to disable/enable unit
- SMS Backup – if the OmniSite website has a system outage or a natural disaster prevents normal web monitoring, the Viper can send an SMS text message directly to your cell phone.

*Includes (3) inputs to monitor pump activity, or these same (3) can be used as alarm inputs.

Advanced connection kit version

For wiring to externally-powered input monitoring circuits. The kit can be supplied with one, two or three current monitoring switches, depending on your needs.

Quick Connect Kit- Installation Made Easy

For customers to use the Viper as a lift station monitor, OmniSite has created a Quick-Connect wiring harness that greatly reduces the need for custom field wiring. By using the Quick-Connect wiring harness, power for the input connections is supplied from the Viper unit. Watertight flexible conduit and fitting included in the kit, for wiring to your control panel. Very little electrical experience is required. The kit can be supplied with one, two or three current monitoring switches, depending on your needs. Setup takes just a few minutes.

Features Over-the-Air Configurations & Push-to-Test

There are no field software parameters to set-up, and all system settings are done completely Over-the-Air (OTA) through the GuardDog website or mobile phone interface. This reduces the need for return trips to the jobsite. As an added feature, with the 'Push-to-Test' button at the Viper unit, you can verify your equipment is fully functional when you leave the jobsite.

When an alarm occurs at your station, you will be notified within seconds via e-mail, phone, or by text, quickly enough to correct the situation.

For more information on this new, exciting product, please visit our website at www.omnisite.com

OmniSite products are protected by US Patent #7,228,129 and other patents pending

Viper Data Sheet



Ordering Information

Model	Description										
VPR	Viper Cellular Alarm Monitor										
<table border="1"> <thead> <tr> <th colspan="2">Options</th> </tr> </thead> <tbody> <tr> <td>GPS*</td> <td>GPS Module</td> </tr> <tr> <td>CAM*</td> <td>Web Based Photo System</td> </tr> <tr> <td>AIN</td> <td>(1) Analog Input module</td> </tr> <tr> <td>LVAK</td> <td>Low Voltage Accessory Kit</td> </tr> </tbody> </table> <p style="text-align: center;">*Only one can be selected at a time</p>		Options		GPS*	GPS Module	CAM*	Web Based Photo System	AIN	(1) Analog Input module	LVAK	Low Voltage Accessory Kit
Options											
GPS*	GPS Module										
CAM*	Web Based Photo System										
AIN	(1) Analog Input module										
LVAK	Low Voltage Accessory Kit										
VPR	CAM-AIN-LVAK										

EXAMPLE: VIPER-CAM-AIN-LVAK
 Viper w/ Web based photo system, analog input module and low voltage accessory kit.

Specification

I/O: Accepts (5) Universal Inputs, operating with any voltage in the range of + 12VAC/DC to + 120VAC/DC, 4000 VAC Opto-isolation.

Optional: (1) 4-20mA analog input, 4000V Opto-isolation, 10 bit resolution.

Input Power: 120 VAC +/- 10% or +12 VDC +/- 10%.

Battery Backup: Internal 4 VDC, rechargeable sealed lead acid battery, rated for up to 20 hours of backup during AC power loss.

Operating Temperature: -20 to 150 Deg F

Operating Humidity: 0-90% RH, non-condensing

Radio: Motorola Quad Band GSM cellular transceiver 850-900-1800-1900,

-106dBm sensitivity (typical), Class 4 (2W @850/900 MHZ),

class 1 (1W @1800/1900 MHZ). Certification FCC Parts 15, PTCRB

Antenna: Internal concealed antenna, optional externally mounted antenna for panel mount units.

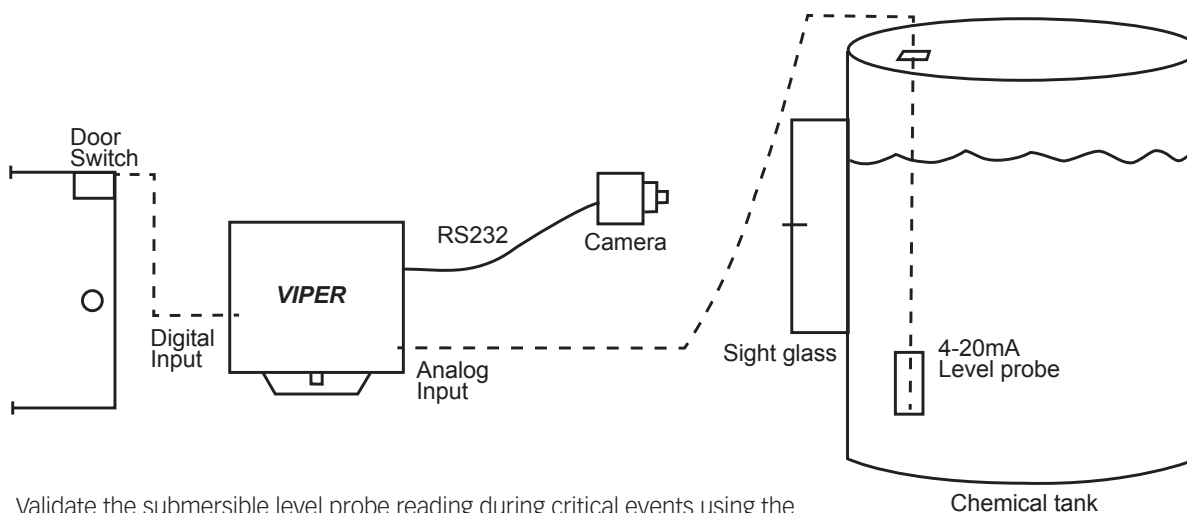
Display: Simple 2 digit LED display

Enclosure: NEMA 4X equivalent ABS plastic enclosure w/locking hasp.

Dimensions: 7.0"W x 9.0"H x 3.75"D, Weight: 3.0 lbs

Certification: UL Pending. Protection: US Patent #7,228,129

Typical Application



Validate the submersible level probe reading during critical events using the photographic image system which doubles as a security and safety device. Notify personnel of a tank malfunction or unauthorized entry to a secure area.