

VCM Sentry provides cost-effective transformer monitoring, remote alerting and reporting

VCM Sentry is the latest addition to the VCM family of PLC-based monitoring and diagnostic modules and provides a cost-effective solution that provides real-time monitoring of basic operating parameters. In addition to local alerts, features include remote alerting and reporting and proactive maintenance support (through a subscription service).

FEATURES

- ◆ Liquid Level monitoring and reporting
- ◆ Liquid Temperature monitoring and reporting
- ◆ Ambient Temperature monitoring and reporting
- ◆ Tank Pressure monitoring and reporting
- ◆ Winding Temperature monitoring and reporting
- ◆ Sudden Pressure monitoring and reporting
- ◆ Pressure Relief Relay monitoring and reporting
- ◆ LED Alerts
- ◆ Ethernet Connectivity
- ◆ Industrial Cellular Telephone Connectivity
(When required and cellphone coverage available)
- ◆ PC-based Application
- ◆ Mobile Applications
- ◆ Remote Administration Application
- ◆ VTC Monitoring Service

Building on the success of VCM2™ and VCM3™ control modules, **VCM Sentry** brings the basic monitoring and diagnostic capabilities of its predecessors to the broader transformer market in a highly affordable solution available directly from the manufacturer.

In addition, Virginia Transformer Corporation (VTC) is offering a remote monitoring service capability linked to VCM Sentry that will deliver peace of mind to customers by continuously monitoring their transformers' performance and providing reports and alerts on key parameters.

VTC's remote monitoring service allows customers to link their VCM Sentry to VTC and receive reports and alerts that fit the customer's needs. Whether it's periodic performance readouts or real-time alerts on out-of-nominal conditions, VTC's service team will be there 24/7/365 to monitor all VTC Sentry-equipped transformers across the customer's sites.

VCM Sentry will be factory-installed for no-charge on all liquid-filled transformers from 5MVA to 30MVA shipped after April 1st, 2020. For transformers outside of this range, VCM Sentry will be available at a cost-effective price of \$2995. At no-charge, 6-month introductory monitoring subscription is included with all VCM Sentry units. Continuation of this service after the introductory period will be available for \$100 per month per transformer. Volume discounts are available on the service – check with your VTC representative.

About Us

Virginia – Georgia Transformer is a US-based and owned Corporation that has been in business for nearly 50 years with 4 plants in North America designing and manufacturing a full line of Power Transformers from 500 kVA to 500 MVA, and up to 500 kV class.

Our Value Proposition: We promise to supply the most “Resilient” Power Transformer designed for 60 years life, that will meet 24/7/365 resilient power needs of the Customer.

Our value proposition is based on three key process philosophies:

Robust Design developed by expert engineers with over 300 years of electrical design experience using proprietary digital design tools, verified by off-the-shelf arsenal of digital simulation tools and executed with efficient proven processes

1. Flawless Execution based on 3T-Pillars: Training, Technology and Transformer Manufacturing Processes
2. Continuous Monitoring of Transformers using VCM Technology supported by 24/7 full-fledged Service Organization
3. Continuous monitoring of the critical parameters in operation , providing knowledge and analysis to achieve 60 yrs life.

Virginia – Georgia Transformer takes pride in being a Minority Business Enterprise - equipped with cutting edge technology, state of the art equipment, most qualified & experienced engineers and processes – which results in the reliability, and the shortest lead time in the Industry.

NOTE: VCM requires internet connection available on transformer to establish connection to server

VCM Sentry FAQs

What is VCM Sentry?

The Virginia Control Module (VCM) Sentry is a Programmable Logic Controller (PLC) device that monitors sensors placed within the tank of a liquid-filled transformer and captures and reports the status of key operating parameters. VCM Sentry is the 3rd product in VTC's family of monitoring solutions, following the launch of VCM2, and VCM3.

What functions does VCM Sentry perform?

VCM Sentry monitors liquid level, temperature and pressure by default, while optional monitoring of winding temperature, Sudden Pressure Release (SPR) and Pressure Relief Device is also available.

How does VCM Sentry work?

Sensors placed in the transformer tank during manufacturing are connected to the "brains" of VCM Sentry. Software programming on the PLC translates signals from these sensors into level, temperature and pressure values and continuously compares these values against parameters provided by the customer. If any value goes outside set limits, VCM Sentry generates an alert that notifies the customer that the transformer needs attention.

How much does VCM Sentry cost?

VCM Sentry is included at no-charge on all VTC liquid-filled units greater than 5MVA and less than 30MVA. If your transformer falls outside this range then VCM Sentry can be added at time of manufacture for \$2995.

I don't want the no-charge VCM Sentry on my transformer, can I order without it?

Yes. When ordering your transformer specify that you do not require VCM Sentry and it will be manufactured without it.

I already have a VTC liquid-filled transformer, can I add VTC Sentry to it?

If your VTC transformer has been equipped with liquid level, temperature and pressure sensors then your VTC Service team can install VCM Sentry onto the transformer.

How do I set VCM Sentry parameters for each transformer?

When you receive your transformer, VTC Service Team will work with you to complete a setup form that lists all parameters and will customize the settings to your requirements. These settings will then be programmed into VCM Sentry, which will trigger alerts based on those levels.

Can I upgrade from VCM Sentry to VCM2 or VCM3?

No. VCM2 and VCM3 require additional sensors that are not included with VCM Sentry.

Can I add the monitoring subscription at any time in the future?

Yes. Contact your VTC Service representative for more information.

How much is the monitoring service?

The monitoring service is \$100 per month per monitored transformer. Discounts are available for connecting 5 or more units to the service – contact VTC Service for more information.

I didn't want VCM Sentry when I originally ordered my transformer. Can I get it added now for no-charge?

No. If your transformer is ordered without VCM Sentry the necessary sensors will not be included in the tank so VCM Sentry cannot be added later.



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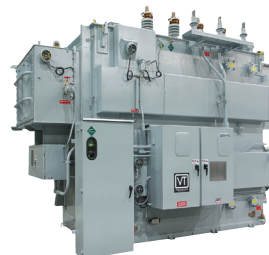
CHIHUAHUA, MX

15 MVA 115 kV
0.5 MVA 4.1 kV



ROANOKE, VA

30 MVA 138 kV
5 MVA 34.5 kV



POCATELLO, ID

100 MVA 230 kV
12 MVA 69 kV



RINCON GA

400 MVA 525 kV
30 MVA 115 kV

Detailed specifications for all VTC VCM products and the remote monitoring service can be found at www.vatransformer.com/VCM.

VTC SERVICE: 1-800-882-3944