Data Sheet



GH VOLTAGE



EQUIPMENT MONITORING SOLUTION

Features and Benefits:

- Industrial SCADA System
- Modbus Communication
- Monitor Energy, Flow, Pressure and Temperature
- Thermal Imaging & Vibration Inputs Optional
- Collects and Pushes Data to the Sparks Cloud
- ViewMaster Allows Web Access to Data Sets 24/7
- Data Analytics Alert User to System Anomalies



All the data collected is pushed to the Sparks Cloud and can be viewed online using ViewMaster software. This real time data can be viewed and used to determine inefficiencies and areas in need of optimization. Data analytics developed in conjunction with the National Institute of Standards and Technology (NIST), can also send alerts to the user for any system anomalies.



Technical Specifications-ReMaster System

Components		
Platform Software Solution	Powered by the Niagara Framework, VYKON by Tridium (a Honeywell Company) is an open, intelligent building automation and control solution that meets all the challenges of real-world integration and enterprise connectivity and ensures complete interoperability among diverse facility systems.	
Processor	The VYKON JACE-300E is a compact, embedded controller/server platform. It combines integrated control, supervision, data logging, alarming, scheduling and network management functions with Internet connectivity and web serving capabilities in a small, compact platform.	
Sensor Module	 The Vykon 16 I/O Module is designed for use as local I/O within control panels for the wired connection of sensors and actuators. Includes: (8) Universal Inputs (4) Form A Relay Outputs (4) 0-10 VDC Analog Outputs. Contains removable screw terminal connectors and status indication LEDs. 	
Modbus Devices	 Modbus RTU 485-Modbus TCP is an open protocol derived from the Master/Slave architecture. It is a widely accepted industrial protocol due to its ease of use and reliability. Modbus Enabled Devices: Power Meter Multi-channel power meter that can be configured for monitoring multiple electrical circuits (sharing a common voltage source). It is supplied with split core Current Transformers (CTs). Compressed Air Insertion Sensor Measures mass flow, temperature and pressure simultaneously. Vibration Monitoring Vibration data collector/analyzer for monitoring and diagnosis of machine conditions. Thermal Detection 	

Thermal imagers offer affordable, fully integrated thermal imaging and measurement solutions for industrial process monitoring.

Network Options	 Network Switches are installed for JACE connectivity to the network as well as enabling other network connected devices Moxa 4-Channel PoE (EDS-206A-4PoE) Moxa 4-Channel Non-PoE (EDS-205A) Moxa Industrial 1121 Wireless Router Sierra Wireless AirLink Cellular Modem
Sparks Dynamics Software	 Sparks Dynamics provides three software packages that stream, analyze and display system data. Sparks Cloud Data Streaming Sparks/NIST Data Analytics ViewMaster: Remote Monitoring Report Generation Alert Notification
Panel Input Connectivity	 480V, 3 phase signal for power meter 120V source for DC power supply and single phase power meters Modbus daisy chained wiring Panel Power Supply Mounted Include Moxa DC Power Supply 24V, 10 Amp Provides power for Ethernet switches Jaces, sensor devices, PoE Current Transformer (CT) Inputs
Casing	Rittal NEMA 4, wall mount enclosure with back panel. Hinged door with two quarter turn latches.
Dimensions	19.75" X 19.75" X 8.25"
	40.11
Weight	40 lbs.
Weight Warranty	40 lbs. 1 year standard warranty



ViewMaster remote monitoring software facilitates 24/7 monitoring and trending as well as connectivity to data analytics software that can detect anomalies.



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