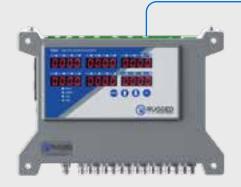


MONITORING SIMPLIFIED



T501 Advanced Monitoring Solution for Multiple Electrical Assets



Rugged, Most Versatile and Multi-Channel monitoring solution, Capable of monitoring various electrical Assets: Basic Asset Monitoring, Fibre Optic Temperature Monitoring, Partial Discharge, Bushing, OLTC, Load, Power, and more...

T501 is the most advanced monitoring solution designed to monitor multiple electrical assets types with its simple and user-friendly interface. T501 along with customized sensors for specific requirement and software provides condition monitoring of electrical assets by focusing on preventing asset failures and downtime. With our comprehensive monitoring solution, the health of assets can be determined and also maintenance activities can be scheduled. The system along with sensors, monitors, and software (Rugged Connect/ RM EYE) is customizable as per the specifications. The solution can be used for existing (retrofit applications) or new electrical assets.

Our T501 gives state-of-the-art condition monitoring solution for industries with huge electrical infrastructure. It can analyze the data and obtain the predictive diagnostics to detect any serious faults before a major breakdown occurs. T501 is precisely designed to monitor all electrical asset types and to provide a greater visibility into the assets.

- Simple visualization & easy to configure
- Equipped with most accurate & advance health assessment analytics
- Range of communication options and protocol support; ethernet redundancy (PRP)
- Highly secure, web server-based visualization and configuration software

Applications



Transformer Monitoring (Oil Filled / Dry type)



Cable Monitoring (EHV / HV / MV)



Motors/Generators Monitoring (DOL / VFD)



Switchgear Monitoring (GIS / AIS / MV Panel)

Benefits

- Improved asset reliability
- Accurate predictive analysis
- Access asset data from anywhere
- Increased asset lifetime
- Highest return on investment
- Field upgradable with no device downtime

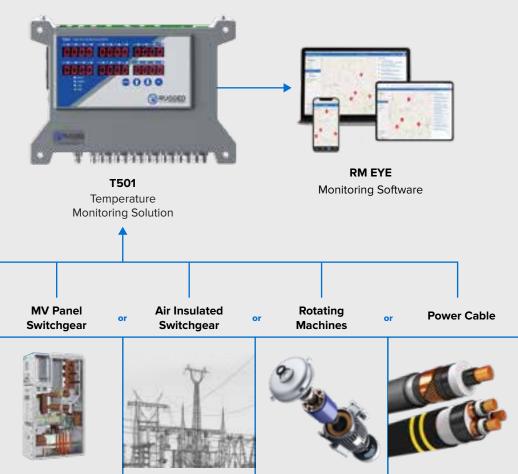
System Architecture

Lorem ipsum dolor sit amet, consectetuer adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit

Transformer

Gas Insulated

Switchgear





T501 **FEATURES**

Comprehensive Features to Meet Market Demand

Serial Port (R485) Data Input/ • **Relay Outputs** Output Integration Modbus Protocol • 08 x Form C Relay contacts DNP3.0 Protocol • NO-C-NC IEC60870-104 Protocol • Cooling control Alerts / Alarms Power input • 24 / 48 Vdc Power Supply Unit / Adaptor provided as Accessories (OPTIONAL) 6 **Analog Outputs** • • 04 x User Programmable Current Output (4-20mA) Voltage Output (0-5V/0-10V)

Analog / Digital Inputs

- 08 x Configurable Inputs
- RTD (PT-100), Potentiometer
- AC Current (Clamp-On CT), DC current (4-20mA)
- Digital (Dry Contacts)

USB Port •

- Configuration & Troubleshooting
- Data Export
- MicroSD Card

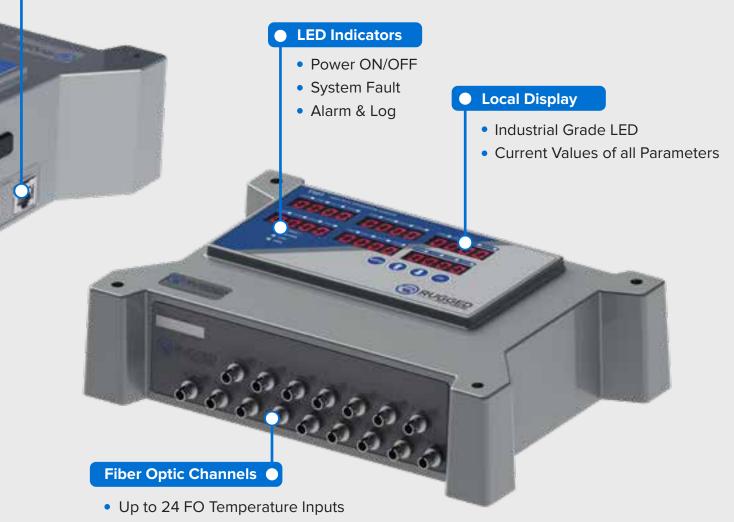


RUGGED CONNECT SOFTWARE

- Desktop and Web Client
- Remote Configuration
- Advanced Visualization
- Data Logging, Reporting
- Supports Industry Standard Protocols
- Customization available on request
- Secure access to data & Configuration
- Multiple Language Support

Ethernet Ports

- 02 x configurable Ports (RJ-45/SFP)
- Full Redundancy
- PRP Protocol
- Modbus, DNP3.0, IEC60870-104 and IEC 61850

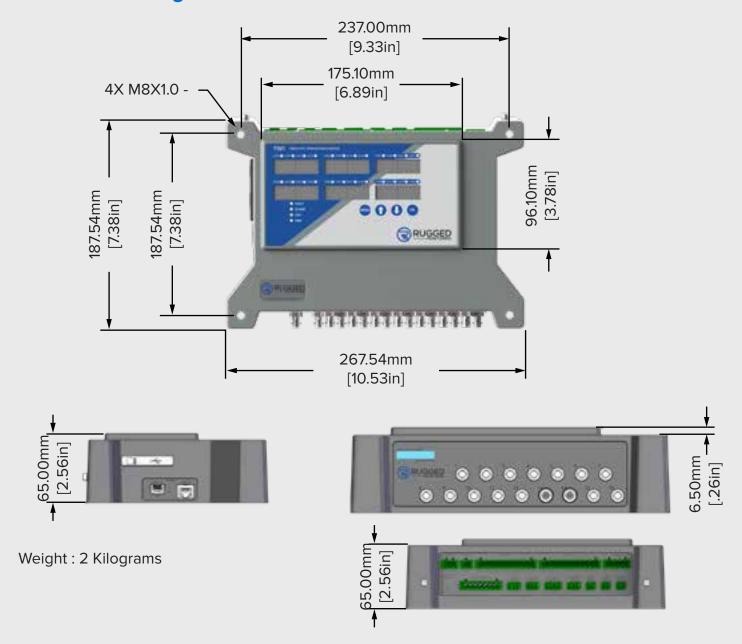


- GaAs based technology
- Built-In Self Test feature
- Higher Signal Strength

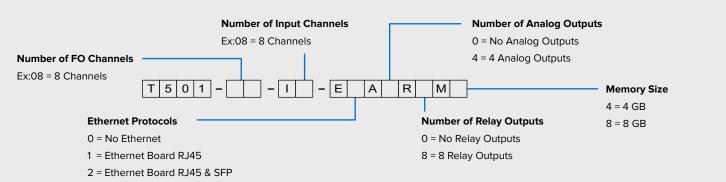
Technical Specifications

Input Power Requirement 24/48 VPC ± 10%			
ANALOG/DIGITAL INPUT MODULE ACCUracy of Channels 1Hz Measurement Range -80 °C to +300 °C (cryogenic 4 °K range optional) Resolution 0.1 °C ACCUracy of Channels 200 ms / channel (Optional: Faster scanning rates available) ACCURACY 11.0 °C (10.2 °C in relative temperature) Scan Rate 200 ms / channel (Optional: Faster scanning rates available) ANALOG OUTPUT MODULE ANALOG OUTPUT MODULE ANALOG OUTPUT MODULE ACCURACY 11.0 °C (10.2 °C in relative temperature) Scan Rate 200 ms / channel (Optional: Faster scanning rates available) We of Output Channels 2 to 24 channels # of Output Channels 04 Channels # of Output Channels 04 Channels OUTPUT RELAY MODULE ANALOG OUTPUT WOUTPUT CHANNELS 08 Form C relays (5A) User Programmable Yes, from Rugged Connect Software or webserver, if present 4 or 8 GB, Industrial Grade micro-SD, extendable to 2TB Data Storage Capacity 4 or 8 GB, Industrial Grade micro-SD, extendable to 2TB Logging Rate User Configurable, 1 sec interval on USB System Fault Indication 1 System Fault Relay, with Local LED light Config port USB (to use with Rugged connect windows software) Ethernet Communication 01 x RS-485 (RS-232 optional converter) Ethernet Communication 02 Ethernet Ports, configurable to RJ-45 or SFP (Gigabit Optical) Redundancy Support PRP Redundancy Protocol Supported Modbus, DNP3.0, IEC60870-104, IEC61850, Other protocols provided on request ESD and EM Field Immunity IEC61000-4-2, C37-90-3, IEC61000-4-3, C37-90-2 EMC TYPE TESTING Magnetic Field Immunity IEC61000-4-10, IEC61000-4-10 Immunity from Conducted Disturbances Ripple, Dips & Damped Oscillatory IEC61000-4-17, IEC61000-4-18, IEC61000-4-29	POWER SUPPLY		
ANALOG/DIGITAL INPUT MODULE Input Channel Types Configurable from a range of input options, RTD, AC/DC current, Potentiometer, Dry contact switch		<u> </u>	
ANALOG/DIGITAL INPUT MODULE Accuracy of Channels		# of Input Channels	
Accuracy of Channels ±0.5% full scale input range Input Channel Sample Rate 1Hz Measurement Range -80 °C to +300 °C (cryogenic 4 °K range optional) Resolution 0.1 °C Accuracy ±1.0 °C (±0.2 °C in relative temperature) Scan Rate 200 ms / channel (Optional: Faster scanning rates available) Number of Channels 2 to 24 channels # of Output Channels 04 Channels Output format 4.20 mA or 0.5Vdc / 0-10Vdc (Configurable for any measured / calculated value) OUTPUT RELAY WODULE DATA STORAGE & CONFIGURATION Data Storage Capacity 4 or 8 GB, industrial Grade micro-SD, extendable to 2TB Logging Rate User Configurable, 1 sec interval on USB System Fault Indication 1 System Fault Relay, with Local LED light Config port USB (to use with Rugged connect windows software) Ethernet Communication 01 x RS-485 (RS-232 optional converter) Ethernet Communication 02 Ethernet Ports, configurable to RJ-45 or SFP (Gigabit Optical) Redundancy Support PRP Redundancy Protocol Supported Modbus, DNP3.0, IEC60870-104, IEC61850, Other protocols provided on request Conducted & Radiated Emissions ICES-003 (2016), CISPR32 (2015), CISPR11 (2015) ESD and EM Field Immunity IEC61000-4-2, C37.90-3, IEC61000-4-3, C37.90-2 Immunity from Conducted Disturbances IEC61000-4-18, IEC61000-4-19		Input Channel Types	
Measurement Range		Accuracy of Channels	±0.5% full scale input range
FIBER OPTIC MODULES Resolution Accuracy £1.0 "C (±0.2 "C in relative temperature) Scan Rate 200 ms / channel (Optional: Faster scanning rates available) Number of Channels 2 to 24 channels 4 of Output Channels Output format Output format Output TRELAY MODULE # of Output Channels Output Channels Output Channels Output Channels Output Channels OB Form C relays (5A) User Programmable Yes, from Rugged Connect Software or webserver, if present Data Storage Capacity 4 or 8 GB, Industrial Grade micro-SD, extendable to 2TB Logging Rate User Configurable, 1 sec interval on USB System Fault Indication 1 System Fault Relay, with Local LED light Config port USB (to use with Rugged connect windows software) Ethernet Communication O1 x RS-485 (RS-232 optional converter) Ethernet Communication Redundancy Protocol Supported Modbus, DNP3.0, IEC60870-104, IEC61850, Other protocols provided on request Conducted & Radiated Emissions ICES-003 (2016), CISPR32 (2015), CISPR11 (2015) ESD and EM Field Immunity IEC61000-4-2, C37.90-3, IEC61000-4-3, C37.90.2 EMC TYPE TESTING Ripple, Dips & Damped Oscillatory IEC61000-4-17, IEC61000-4-18, IEC61000-4-29		Input Channel Sample Rate	1 Hz
FIBER OPTIC MODULES Accuracy ±1.0 °C (±0.2 °C in relative temperature) Scan Rate 200 ms / channel (Optional: Faster scanning rates available) Number of Channels 2 to 24 channels # of Output Channels 04 Channels Output format 4.20 mA or 0.5Vdc / 0-10Vdc (Configurable for any measured / calculated value) OUTPUT RELAY MODULE # of Output Channels 08 Form C relays (5A) User Programmable Yes, from Rugged Connect Software or webserver, if present DATA STORAGE & CONFIGURATION 5.25 Configurable for any measured / calculated value) DATA STORAGE & User Configurable, 1 sec interval on USB System Fault Indication 1 System Fault Relay, with Local LED light Config port USB (to use with Rugged connect windows software) COMMUNICATION 6.25 Configurable for RJ-45 or SFP (Gigabit Optical) Redundancy Support PRP Redundancy Protocol Supported Modbus, DNP3.0, IEC60870-104, IEC61850, Other protocols provided on request Conducted & Radiated Emissions ICES-003 (2016), CISPR32 (2015), CISPR11 (2015) ESD and EM Field Immunity IEC61000-4-2, C37.90-3, IEC61000-4-3, C37.90-2 EMC TYPE TESTING Magnetic Field Immunity IEC61000-4-6, IEC61000-4-16 Ripple, Dips & Damped Oscillatory IEC61000-4-17, IEC61000-4-18, IEC61000-4-29		Measurement Range	-80 °C to +300 °C (cryogenic 4 °K range optional)
ACCURACY Scan Rate 200 ms / channel (Optional: Faster scanning rates available) Number of Channels 2 to 24 channels # of Output Channels Output format Output format Output TRELAY MODULE # of Output Channels # of Output Channels 08 Form C relays (5A) User Programmable Yes, from Rugged Connect Software or webserver, if present Logging Rate User Configurable, 1 sec interval on USB System Fault Indication 1 System Fault Relay, with Local LED light Config port USB (to use with Rugged connect windows software) Serial Communication O1 x RS-485 (RS-232 optional converter) Ethernet Communication O2 Ethernet Ports, configurable to RJ-45 or SFP (Gigabit Optical) Redundancy Protocol Supported Modbus, DNP3.0, IEC60870-104, IEC61850, Other protocols provided on request Conducted & Radiated Emissions ICES-003 (2016), CISPR32 (2015), CISPR11 (2015) ESD and EM Field Immunity IEC61000-4-4, IEC61000-4-5, C37.90.2 Immunity from Conducted Disturbances Ripple, Dips & Damped Oscillatory IEC61000-4-16, IEC61000-4-18, IEC61000-4-29		Resolution	0.1 °C
ANALOG OUTPUT MODULE # of Output Channels # of Output Channels Output format Output format Output format # of Output Channels Output format Output Felay MODULE # of Output Channels OB Form C relays (5A) User Programmable Yes, from Rugged Connect Software or webserver, if present Pata Storage Capacity Logging Rate Logging Rate User Configurable, 1 sec interval on USB System Fault Indication Config port USB (to use with Rugged connect windows software) Config port USB (to use with Rugged connect windows software) Ethernet Communication O1 x RS-485 (RS-232 optional converter) Ethernet Communication Redundancy Protocol Supported Modbus, DNP3.0, IEC60870-104, IEC61850, Other protocols provided on request Conducted & Radiated Emissions ICES-003 (2016), CISPR32 (2015), CISPR11 (2015) ESD and EM Field Immunity IEC61000-4-2, C37.90-3, IEC61000-4-3, C37.90.2 Magnetic Field Immunity IEC61000-4-8, IEC61000-4-10 Immunity from Conducted Disturbances Ripple, Dips & Damped Oscillatory IEC61000-4-17, IEC61000-4-18, IEC61000-4-29		Accuracy	±1.0 °C (±0.2 °C in relative temperature)
# of Output Channels Output format Output format Output format Output format Output format A-20 mA or 0-5Vdc / 0-10Vdc (Configurable for any measured / calculated value) # of Output Channels OB Form C relays (5A) User Programmable Yes, from Rugged Connect Software or webserver, if present Data Storage Capacity Logging Rate Logging Rate User Configurable, 1 sec interval on USB System Fault Indication 1 System Fault Relay, with Local LED light Config port USB (to use with Rugged connect windows software) Serial Communication O1 x RS-485 (RS-232 optional converter) Ethernet Communication Redundancy Protocol Supported Modbus, DNP3.0, IEC60870-104, IEC61850, Other protocols provided on request Conducted & Radiated Emissions ICES-003 (2016), CISPR32 (2015), CISPR11 (2015) ESD and EM Field Immunity IEC61000-4-2, C37.90-3, IEC61000-4-3, C37.90.2 Magnetic Field Immunity IEC61000-4-4, IEC61000-4-10 Immunity from Conducted Disturbances Ripple, Dips & Damped Oscillatory IEC61000-4-17, IEC61000-4-18, IEC61000-4-29		Scan Rate	200 ms / channel (Optional: Faster scanning rates available)
ANALOG OUTPUT MODULE Output format Output format 4-20 mA or 0-5Vdc / 0-10Vdc (Configurable for any measured / calculated value) # of Output Channels User Programmable Data Storage Capacity Logging Rate Logging Rate System Fault Indication Config port User (Communication Ethernet Communication Redundancy Protocol Supported Conducted & Radiated Emissions ESD and EM Field Immunity Fast Transient & Surge Immunity Immunity from Conducted Disturbances Ripple, Dips & Damped Oscillatory # of Output Channels 08 Form C relays (5A) Ves, from Rugged Connect Software or webserver, if present 4-20 mA or 0-5Vdc / 0-10Vdc (Configurable for any measured / calculated value) 18 Form C relays (5A) 19 Serial Connect Software or webserver, if present 4 or 8 GB, Industrial Grade micro-SD, extendable to 2TB User Configurable, 1 sec interval on USB User Configurable, 1 sec interval on USB 1 System Fault Relay, with Local LED light User Configurable, 1 sec interval on USB 1 System Fault Relay, with Local LED light User Configurable, 1 sec interval on USB 1 System Fault Relay, with Local LED light User Configurable, 1 sec interval on USB 1 System Fault Relay, with Local LED light User Configurable, 1 sec interval on USB 1 System Fault Relay, with Local LED light User Configurable, 1 sec interval on UsB 1 System Fault Relay, with Local LED light User Configurable, 1 sec interval on UsB 1 System Fault Relay, with Local LED light User Configurable, 1 sec interval on UsB 1 System Fault Relay, with Local LED light 1 System F		Number of Channels	2 to 24 channels
MODULE Output format Output format Output relay MODULE # of Output Channels User Programmable Data Storage Capacity Configurable, 1 sec interval on USB CONFIGURATION Data Storage Capacity Logging Rate CONFIGURATION Data Storage Capacity Logging Rate User Configurable, 1 sec interval on USB System Fault Indication Config port USB (to use with Rugged connect windows software) Serial Communication O1 x RS-485 (RS-232 optional converter) Ethernet Communication O2 Ethernet Ports, configurable to RJ-45 or SFP (Gigabit Optical) Redundancy Support PRP Redundancy Modbus, DNP3.0, IEC60870-104, IEC61850, Other protocols provided on request Conducted & Radiated Emissions ICES-003 (2016), CISPR32 (2015), CISPR11 (2015) ESD and EM Field Immunity IEC61000-4-2, C37.90-3, IEC61000-4-3, C37.90.2 EMC TYPE TESTING Magnetic Field Immunity IEC61000-4-8, IEC61000-4-10 Immunity from Conducted Disturbances Ripple, Dips & Damped Oscillatory IEC61000-4-17, IEC61000-4-18, IEC61000-4-29		# of Output Channels	04 Channels
User Programmable Yes, from Rugged Connect Software or webserver, if present		Output format	
Data Storage Capacity Data Storage Capacity Logging Rate Logging Rate User Configurable, 1 sec interval on USB System Fault Indication Config port USB (to use with Rugged connect windows software) Serial Communication Communication Communication Communication Communication Communication Redundancy Protocol Supported Conducted & Radiated Emissions ESD and EM Field Immunity EMC TYPE TESTING Data Storage Capacity 4 or 8 GB, Industrial Grade micro-SD, extendable to 2TB User Configurable, 1 sec interval on USB User Configurable, 1 sec interval on User User Configurable to RJ-45 or SFP (Gigabit Optical) On the Protocol Supported On the Protocol Supported	OUTPUT RELAY	# of Output Channels	08 Form C relays (5A)
DATA STORAGE & CONFIGURATION Logging Rate System Fault Indication 1 System Fault Relay, with Local LED light Config port USB (to use with Rugged connect windows software) Serial Communication 01 x RS-485 (RS-232 optional converter) Ethernet Communication 02 Ethernet Ports, configurable to RJ-45 or SFP (Gigabit Optical) Redundancy Support PRP Redundancy Protocol Supported Modbus, DNP3.0, IEC60870-104, IEC61850, Other protocols provided on request Conducted & Radiated Emissions ICES-003 (2016), CISPR32 (2015), CISPR11 (2015) ESD and EM Field Immunity IEC61000-4-2, C37.90-3, IEC61000-4-3, C37.90.2 Fast Transient & Surge Immunity IEC61000-4-4, IEC61000-4-5, C37.90.2 Magnetic Field Immunity IEC61000-4-6, IEC61000-4-10 Immunity from Conducted Disturbances Ripple, Dips & Damped Oscillatory IEC61000-4-17, IEC61000-4-18, IEC61000-4-29		User Programmable	Yes, from Rugged Connect Software or webserver, if present
System Fault Indication 1 System Fault Relay, with Local LED light Config port USB (to use with Rugged connect windows software) Serial Communication 01 x RS-485 (RS-232 optional converter) Ethernet Communication 02 Ethernet Ports, configurable to RJ-45 or SFP (Gigabit Optical) Redundancy Support PRP Redundancy Protocol Supported Modbus, DNP3.0, IEC60870-104, IEC61850, Other protocols provided on request Conducted & Radiated Emissions ICES-003 (2016), CISPR32 (2015), CISPR11 (2015) ESD and EM Field Immunity IEC61000-4-2, C37.90-3, IEC61000-4-3, C37.90.2 Fast Transient & Surge Immunity IEC61000-4-4, IEC61000-4-5, C37.90.2 EMC TYPE TESTING Magnetic Field Immunity IEC61000-4-6, IEC61000-4-10 Immunity from Conducted Disturbances IEC61000-4-16 Ripple, Dips & Damped Oscillatory IEC61000-4-17, IEC61000-4-18, IEC61000-4-29		Data Storage Capacity	4 or 8 GB, Industrial Grade micro-SD, extendable to 2TB
Config port USB (to use with Rugged connect windows software) Serial Communication O1 x RS-485 (RS-232 optional converter) Ethernet Communication Redundancy Protocol Supported Conducted & Radiated Emissions Conducted & Radiated Emissions ESD and EM Field Immunity EMC TYPE TESTING Serial Communication O2 Ethernet Ports, configurable to RJ-45 or SFP (Gigabit Optical) Modbus, DNP3.0, IEC60870-104, IEC61850, Other protocols provided on request ICES-003 (2016), CISPR32 (2015), CISPR11 (2015) ESD and EM Field Immunity IEC61000-4-2, C37.90-3, IEC61000-4-3, C37.90.2 Fast Transient & Surge Immunity IEC61000-4-4, IEC61000-4-5, C37.90.2 Immunity from Conducted Disturbances IEC61000-4-6, IEC61000-4-16 Ripple, Dips & Damped Oscillatory IEC61000-4-17, IEC61000-4-18, IEC61000-4-29		Logging Rate	User Configurable, 1 sec interval on USB
Serial Communication 01 x RS-485 (RS-232 optional converter) Ethernet Communication 02 Ethernet Ports, configurable to RJ-45 or SFP (Gigabit Optical) Redundancy Support PRP Redundancy Protocol Supported Modbus, DNP3.0, IEC60870-104, IEC61850, Other protocols provided on request Conducted & Radiated Emissions ICES-003 (2016), CISPR32 (2015), CISPR11 (2015) ESD and EM Field Immunity IEC61000-4-2, C37.90-3, IEC61000-4-3, C37.90.2 Fast Transient & Surge Immunity IEC61000-4-4, IEC61000-4-5, C37.90.2 Immunity from Conducted Disturbances IEC61000-4-6, IEC61000-4-16 Ripple, Dips & Damped Oscillatory IEC61000-4-17, IEC61000-4-18, IEC61000-4-29		System Fault Indication	1 System Fault Relay, with Local LED light
Ethernet Communication 02 Ethernet Ports, configurable to RJ-45 or SFP (Gigabit Optical) Redundancy Support PRP Redundancy Protocol Supported Modbus, DNP3.0, IEC60870-104, IEC61850, Other protocols provided on request Conducted & Radiated Emissions ICES-003 (2016), CISPR32 (2015), CISPR11 (2015) ESD and EM Field Immunity IEC61000-4-2, C37.90-3, IEC61000-4-3, C37.90.2 Fast Transient & Surge Immunity IEC61000-4-4, IEC61000-4-5, C37.90.2 EMC TYPE TESTING Magnetic Field Immunity IEC61000-4-8, IEC61000-4-10 Immunity from Conducted Disturbances IEC61000-4-16 Ripple, Dips & Damped Oscillatory IEC61000-4-17, IEC61000-4-18, IEC61000-4-29		Config port	USB (to use with Rugged connect windows software)
Redundancy Support PRP Redundancy Protocol Supported Modbus, DNP3.0, IEC60870-104, IEC61850, Other protocols provided on request Conducted & Radiated Emissions ICES-003 (2016), CISPR32 (2015), CISPR11 (2015) ESD and EM Field Immunity IEC61000-4-2, C37.90-3, IEC61000-4-3, C37.90.2 Fast Transient & Surge Immunity IEC61000-4-4, IEC61000-4-5, C37.90.2 EMC TYPE TESTING Magnetic Field Immunity IEC61000-4-8, IEC61000-4-10 Immunity from Conducted Disturbances IEC61000-4-6, IEC61000-4-16 Ripple, Dips & Damped Oscillatory IEC61000-4-17, IEC61000-4-18, IEC61000-4-29	COMMUNICATION	Serial Communication	01 x RS-485 (RS-232 optional converter)
Redundancy Protocol Supported Modbus, DNP3.0, IEC60870-104, IEC61850, Other protocols provided on request Conducted & Radiated Emissions ICES-003 (2016), CISPR32 (2015), CISPR11 (2015) ESD and EM Field Immunity IEC61000-4-2, C37.90-3, IEC61000-4-3, C37.90.2 Fast Transient & Surge Immunity IEC61000-4-4, IEC61000-4-5, C37.90.2 Magnetic Field Immunity IEC61000-4-8, IEC61000-4-10 Immunity from Conducted Disturbances IEC61000-4-6, IEC61000-4-16 Ripple, Dips & Damped Oscillatory IEC61000-4-17, IEC61000-4-18, IEC61000-4-29		Ethernet Communication	02 Ethernet Ports, configurable to RJ-45 or SFP (Gigabit Optical)
Conducted & Radiated Emissions ICES-003 (2016), CISPR32 (2015), CISPR11 (2015) ESD and EM Field Immunity IEC61000-4-2, C37.90-3, IEC61000-4-3, C37.90.2 Fast Transient & Surge Immunity IEC61000-4-4, IEC61000-4-5, C37.90.2 EMC TYPE TESTING Magnetic Field Immunity IEC61000-4-8, IEC61000-4-10 Immunity from Conducted Disturbances IEC61000-4-6, IEC61000-4-16 Ripple, Dips & Damped Oscillatory IEC61000-4-17, IEC61000-4-18, IEC61000-4-29		Redundancy	Support PRP Redundancy
ESD and EM Field Immunity IEC61000-4-2, C37.90-3, IEC61000-4-3, C37.90.2 Fast Transient & Surge Immunity IEC61000-4-4, IEC61000-4-5, C37.90.2 EMC TYPE TESTING Magnetic Field Immunity IEC61000-4-8, IEC61000-4-10 Immunity from Conducted Disturbances IEC61000-4-6, IEC61000-4-16 Ripple, Dips & Damped Oscillatory IEC61000-4-17, IEC61000-4-18, IEC61000-4-29		Protocol Supported	
Fast Transient & Surge Immunity IEC61000-4-4, IEC61000-4-5, C37.90.2	EMC TYPE TESTING	Conducted & Radiated Emissions	ICES-003 (2016), CISPR32 (2015), CISPR11 (2015)
EMC TYPE TESTING Magnetic Field Immunity IEC61000-4-8, IEC61000-4-10 Immunity from Conducted Disturbances IEC61000-4-6, IEC61000-4-16 Ripple, Dips & Damped Oscillatory IEC61000-4-17, IEC61000-4-18, IEC61000-4-29		ESD and EM Field Immunity	IEC61000-4-2, C37.90-3, IEC61000-4-3, C37.90.2
Immunity from Conducted Disturbances IEC61000-4-6, IEC61000-4-16 Ripple, Dips & Damped Oscillatory IEC61000-4-17, IEC61000-4-18, IEC61000-4-29		Fast Transient & Surge Immunity	IEC61000-4-4, IEC61000-4-5, C37.90.2
Ripple, Dips & Damped Oscillatory IEC61000-4-17, IEC61000-4-18, IEC61000-4-29		Magnetic Field Immunity	IEC61000-4-8, IEC61000-4-10
		Immunity from Conducted Disturbances	IEC61000-4-6, IEC61000-4-16
Safety IEC60255-26 and CE Certified		Ripple, Dips & Damped Oscillatory	IEC61000-4-17, IEC61000-4-18, IEC61000-4-29
		Safety	IEC60255-26 and CE Certified
Operating Temperature -40 to 72 °C	ENVIRONMENTAL AND MECHANICAL	Operating Temperature	-40 to 72 °C
Operating Humidity 95% Non Condensing		Operating Humidity	95% Non Condensing
Storage Lemperature -40 to 85 °C		Storage Temperature	-40 to 85 °C
Dimensions W26.7 cm x H7.2 cm x D18.7 cm (10.5" x 2.8" x 7.4")		Dimensions	W26.7 cm x H7.2 cm x D18.7 cm (10.5" x 2.8" x 7.4")
Weight App. 1.5 to 2.0 Kg. (based on number of configuration)		Weight	App. 1.5 to 2.0 Kg. (based on number of configuration)

Product Drawing

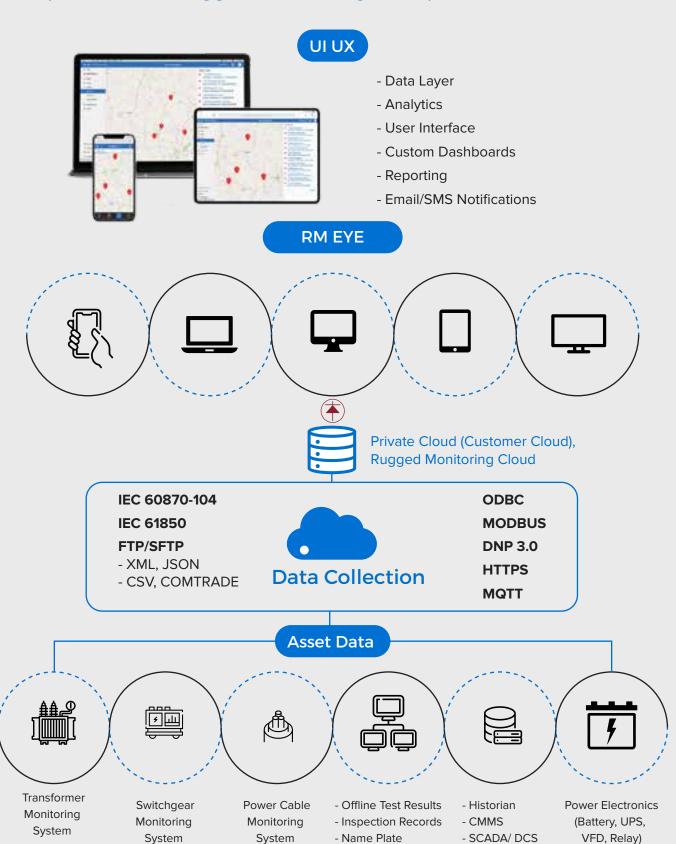


Odering Code



Asset Monitoring: Enterprise Architecture

Compatible with Rugged Monitoring Enterprise Solution



One Solution for Multi-Site Multi Asset Monitoring

RM Eye - Unified platform to monitor entire network of electrical assets

Features

- Advanced asset health monitoring with analysis and recommendations to increase asset effectiveness in addition to maximizing equipment uptime
- Modern remote monitoring solutions provide valuable insights to Multiple Assets at Multiple Sites from time to time
- Establish a real time and consistent monitoring by getting the right information into right hands
- Simple and user-friendly interface providing easy and fast access to all the features
- Everything about the asset at one place
 The raw data, analysis and
 recommendations
- Advanced asset algorithms for electrical assets to evaluate asset health
- Advanced reporting technology with automated alerts
- An efficient, reliable partial discharge monitoring for all the assets
- A detailed comprehensive DGA analysis

- Built on well-established remote and cloud-based monitoring technology
- Quick configuration so that you are not required to configure separately.
- Protocols: MODBUS, MQTT, IEC61850
- Robust integration with 3rd party systems and devices with industry standard protocols
- Bulk configuration imports for fast deployment
- Encompasses a secure access to data and configuration
- QR code scanner on mobile devices
- Accessible on web browser and mobile app
- Historical data storage and on demand access via export feature
- Extended multilingual support to handle product inquires or troubleshoot problems proactively
- Systematic fleet management analysis
- Offline test data integration and analysis

Why Customers Choose Us?

RM solution, the trusted monitoring solution for over 10000+ assets across 50+ countries. We are a leading High Value Electrical Asset Monitoring Company integrating fibre optic technology to the assets.



Attention to Details

It's our attention to the small stuff, scheduling of timelines and keen project management that makes us stand out from the rest.



A plan for Success

Our Customers are well satisfied with the advisory services that we offer to help them with best in class technological performance and a long durable life.



Experts only

We bring-in our diversified experienced team with over 100+ years of experience in Asset Monitoring



Meeting Deadlines

Work with us, and you'll work with seasoned professionals – vigilant of deadlines, and committed to exceeding client expectations.



Money Matters

We protect you against currency fluctuation with competitive and fair market prices



Our Presence Across the Globe



Head Office

Canada

1415 Frank-Carrel, Suite 230, Quebec, QC - G1N 4N7. CANADA

Asia Pasific India **Latin America** Middle East ■ North America **Europe**

Rugged Monitoring Services

Rugged Monitoring provides customization of sensors, monitors & software. In addition we offer on-site commissioning services, maintenance contracts and technical support to all customers worldwide.



(i) About Rugged Monitoring

Industry's leading team of asset condition monitoring experts with 100+ years of combined experience committed to delivering customizable solutions for challenging applications. We offer a range of reliable, high performance, customizable sensors and monitoring solutions that are immune to external influence.



in f 💿 🛩 🗸 🕞 ruggedmon

info@ruggedmonitoring.com

www.ruggedmonitoring.com

©2021 Rugged Monitoring Company. All rights reserved. Information subject to change without notice. All trademarks are properties of their respective companies, as noted herein.

