



UNITECH

POWERING SOLUTIONS. CONNECTING WORLDS.



SWITCHGEAR



TRANSFORMERS



CONTROL PANELS



GLOBAL EXPORTS

INTELLIGENT PROTECTION. SMARTER AUTOMATION.

PRECISE MONITORING. RELIABLE PROTECTION. ENERGY SAVING SOLUTIONS.

VOLTAGE MONITORING

RELAY (VMR)

Protects from abnormal voltage conditions in 3-phase systems.



- ✓ True RMS Measurement
- ✓ Multiple Parameters
- ✓ Configurable Alarms
- ✓ RS-485 Communication (Optional)
- ✓ DIN Rail Mounted

CURRENT MONITORING

RELAY (CMR)

Monitors current & protects equipment from overload and phase failure.



- ✓ Wide Current Range (50mA to 10A Direct)
- ✓ Three Phase Monitoring
- ✓ Under/Over Current Alarms
- ✓ CT Ratio Selectable
- ✓ DIN Rail Mounted

EARTH LEAKAGE

RELAY (ELR)

Detects earth leakage current and ensures safety.



- ✓ Current Range: 10mA to 30A (Settable)
- ✓ Trip Delay: 100mSec to 999Secs
- ✓ 8A / 16A, 250VAC Potential Free (2 Relay Optional)
- ✓ CBCT Compatible (Various Sizes)
- ✓ 96x96mm Flush & DIN Rail

ASTRONOMICAL TIMER

STREET LIGHT & TUBE WELL CONTROLLER

Automates devices based on sunrise-sunset or fixed time.



- ✓ Astronomical & Manual Modes
- ✓ 4 Different Settable Settings
- ✓ Pre-defined LAT-LONG Database
- ✓ OLED Display
- ✓ 8A / 16A / 90A Relay Options
- ✓ RS-485 Communication (Optional)
- ✓ 96x96mm Flush & DIN Rail



HIGH ACCURACY
& RELIABILITY



ADVANCED
PROTECTION



EASY INSTALLATION
& CONFIGURATION



INDUSTRIAL GRADE
PERFORMANCE

APPLICATIONS



CONTROL &
DISTRIBUTION PANELS



PUMPS, MOTORS &
INDUSTRIAL EQUIPMENT



HVAC & BUILDING
MANAGEMENT SYSTEMS



DG SETS & POWER
BACKUP SYSTEMS



STREET LIGHTING
SYSTEMS



TUBE WELL /
BOREWELL PUMPS

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QUALITY YOU CAN TRUST



TECHNOLOGY YOU CAN RELY ON



SOLUTIONS THAT EMPOWER GROWTH



MADE IN INDIA,
TRUSTED GLOBALLY.

VOLTAGE MONITORING RELAY (VMR)

SMART PROTECTION. RELIABLE PERFORMANCE.

The Voltage Monitoring Relay (VMR) is a microprocessor based protection relay designed to continuously monitor voltage, frequency and power quality parameters in 3-phase systems. It provides accurate measurement, advanced protection and reliable alarm indication to safeguard electrical equipment and prevent damage due to abnormal supply conditions.



OLED BRIGHT DISPLAY

High visibility OLED display for clear readings even in low light conditions.



MULTIPLE PARAMETERS TRUE RMS MEASUREMENT

Measures and monitors multiple three phase parameters with True RMS accuracy.



DIN RAIL MOUNTED

Compact and space saving design with standard DIN rail mounting.



RS485 COMM OPTIONAL

Optional RS485 communication for remote monitoring and system integration.

KEY FEATURES



ADVANCED PROTECTION

Protects equipment from abnormal voltage and frequency conditions.



TRUE RMS MEASUREMENT

Accurate True RMS measurement of voltage, frequency and other parameters.



CONFIGURABLE ALARMS

User configurable alarm thresholds for all protection parameters.



RELAY OUTPUTS

2 independent changeover relay outputs for trip or alarm indication.



NON-VOLATILE MEMORY

Settings and logs retained even during power loss.



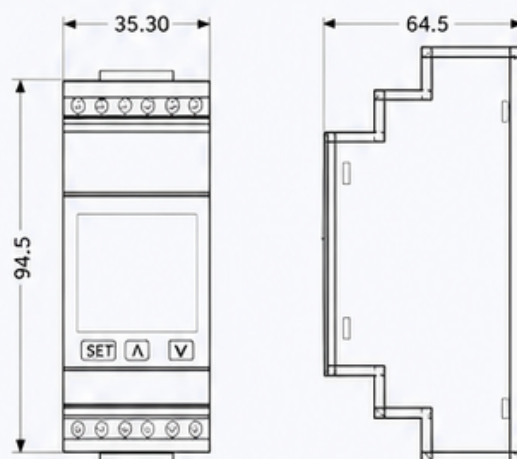
IEC COMPLIANT

Designed and tested as per IEC 62053-21/22 standards.

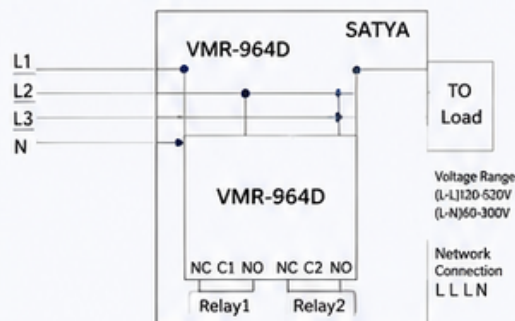
TECHNICAL SPECIFICATIONS

Model	VMR-964D
Supply Voltage	L-L: 120 – 520V AC L-N: 60 – 300V AC
System	3 Phase 4 Wire
Display	OLED Bright Display
Measured Parameters	Voltage (L-L, L-N), Frequency, Voltage Imbalance, Phase Sequence, Phase Loss
Voltage Accuracy	±1% of Reading
Frequency Accuracy	±0.1 Hz
Relay Outputs	2 C/O Relays (5A, 250V AC / 30V DC)
Alarm Functions (Configurable)	Under Voltage, Over Voltage, Voltage Imbalance, Phase Loss, Under Frequency, Over Frequency
Hysteresis	User Adjustable
Communication (Optional)	RS485 Modbus RTU
Mounting	DIN Rail Mounted
Operating Temperature	0°C to +55°C
Standards	IEC 62053-21 / IEC 62053-22

DIMENSIONS (mm)



WIRING DIAGRAM



Made In India

APPLICATIONS



Control & Distribution Panels



Pumps, Motors & Industrial Equipment



HVAC & Building Management Systems



DG Sets & Power Backup Systems

CURRENT MONITORING RELAY

**PRECISE CURRENT MONITORING.
RELIABLE PROTECTION.**

The Current Monitoring Relay is a microprocessor based device designed to monitor and protect electrical systems by continuously measuring current in three phase lines. It provides accurate measurement, advanced protection and configurable alarms to ensure safe and efficient operation of your equipment.



WIDE CURRENT RANGE

50mA to 10A Direct Measurement.
Beyond 10A, External CT is required (CT Ratio Selectable).



MONITOR MULTIPLE PARAMETERS

Displays R, Y, B Phase Current and Average Current for complete system analysis.



CONFIGURABLE ALARMS

Under Current and Over Current alarms with user adjustable thresholds.



RELAY OUTPUT

2A Relay Contact
250V AC Potential Free Contact.



DIN RAIL MOUNTABLE

Compact design for easy installation in standard DIN rail.

KEY FEATURES



TRUE RMS MEASUREMENT

Accurate True RMS measurement of R, Y, B phase current and average current.



DIRECT / CT INPUT

50mA to 10A direct measurement.
Beyond 10A, use external CT.



CT RATIO SELECTABLE

Supports a wide range of CT ratios for flexible application.



CONFIGURABLE ALARMS

Under Current and Over Current alarms with adjustable set points and delay.



RELAY OUTPUT

2 Changeover Relay Outputs (2A, 250V AC) potential free contacts for trip or alarm indication.



RELIABLE PROTECTION

Protects equipment from overload, underload and phase current imbalance conditions.

TECHNICAL SPECIFICATIONS

Product Name	Current Monitoring Relay
Supply Voltage	85 - 270V AC/DC, 50/60 Hz
System	3 Phase 4 Wire
Current Range	50mA to 10A Direct Beyond 10A, External CT is required
CT Ratio	Selectable (1 to 5000)
Parameters Displayed	R Phase Current, Y Phase Current, B Phase Current, Average Current
Measurement Type	True RMS
Alarm Functions	Under Current, Over Current (Configurable)
Relay Output	2 C/O Relay, 2A, 250V AC (Potential Free)
Accuracy	±1% of Reading ±1 Digit
Response Time	< 200ms
Mounting	35mm DIN Rail Mountable
Operating Temperature	0°C to +55°C
Protection	IP20 (Terminals), IP40 (Front)

APPLICATIONS



Control & Distribution Panels



Pumps, Motors & Industrial Equipment

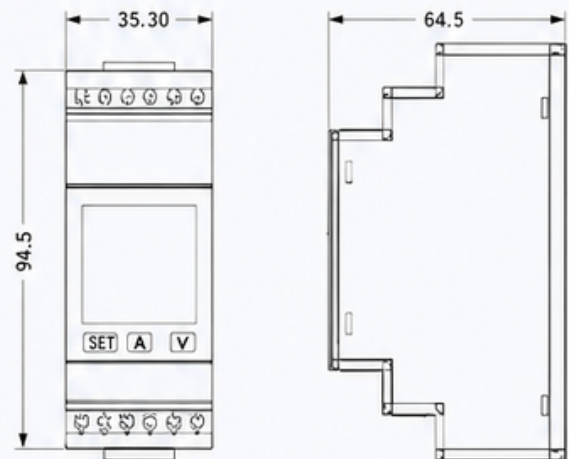


HVAC & Building Management Systems

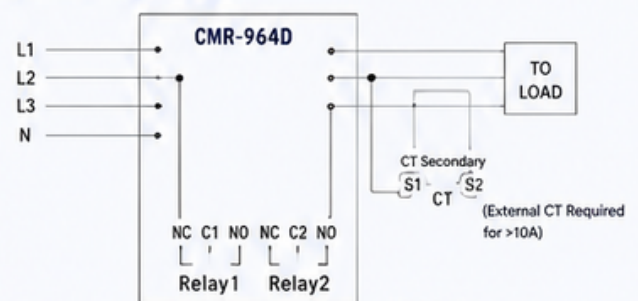


DG Sets & Power Backup Systems

DIMENSIONS (mm)



WIRING DIAGRAM



Made In India

EARTH LEAKAGE RELAY

PRECISE PROTECTION. COMPLETE SAFETY.

Earth Leakage Relay (ELR) is designed to protect people and equipment from earth faults and leakage currents. It continuously monitors the residual current using CBCT and trips the system when leakage exceeds the set limit within the selected time delay. Ideal for industrial, commercial and infrastructure applications.



AVAILABLE IN

96x96mm FLUSH MOUNT & DIN RAIL MOUNTED

KEY FEATURES



WIDE CURRENT RANGE

10mA to 30A
(Settable)



ADJUSTABLE TRIP DELAY

100mSec to 999Secs



RELAY OUTPUT

8A / 16A, 250VAC
Potential Free
(2 Relay Optional)



HIGH ACCURACY & RELIABILITY

Accurate leakage
detection for superior
protection



IEC COMPLIANT

Designed and tested
as per
IEC 62053-21/22



COMPACT DESIGN

96x96mm Flush mount
or DIN rail mounted
for easy installation



CBCT COMPATIBLE

Works with different
sizes of CBCT for
various applications



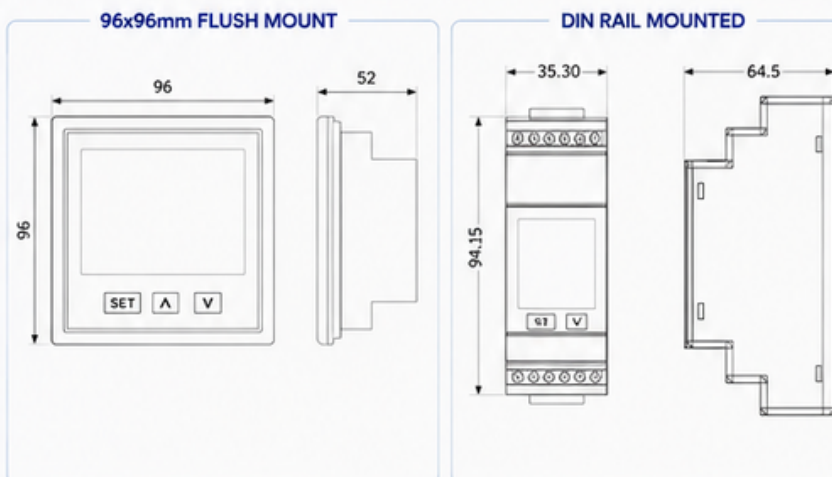
USER FRIENDLY

Easy programming
with digital display
and intuitive keys

TECHNICAL SPECIFICATIONS

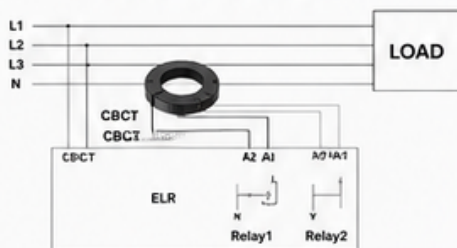
Product Name	Earth Leakage Relay (ELR)
Current Range	10mA to 30A (Settable)
Trip Delay	100mSec to 999Secs (Settable)
Relay Contact	8A / 16A, 250VAC Potential Free (2 Relay Optional)
Auxiliary Supply	85 - 270V AC/DC
Frequency	50 / 60 Hz
Mounting	96x96mm Flush Mount / DIN Rail Mount
Display	4 Digit 7-Segment LED Display
Indications	Power ON, Fault, Trip
CT Input	External CBCT (Selectable)
Operating Temperature	0°C to +55°C
Standards	IEC 62053-21/22
Protection	IP20 (Terminal), IP40 (Front)

DIMENSIONS (mm)



WIRING DIAGRAM

ELR CONNECTION WITH CBCT



TYPICAL APPLICATIONS

MOTOR CONTROL PANEL



DISTRIBUTION BOARD



GENERATORS & DG SETS



CBCT OPTIONS

Different sizes of CBCT are available to suit various cable sizes and applications.



ASTRONOMICAL TIMER

STREET LIGHT & TUBE WELL CONTROLLER

SMART TIMING. AUTOMATIC CONTROL. ENERGY SAVING.

SATYA Astronomical Timer is the perfect solution for operating electrical devices daily at fixed time or based on sunrise and sunset. Ideal for Street Lighting, Tube Wells, Garden Lights, Billboards, and other automation applications.



MANUAL & ASTRONOMICAL MODE
Easily switch between Astronomical mode (Sunrise-Sunset) or Manual mode (Fixed Time).



4 DIFFERENT SETTABLE SETTINGS
Program up to 4 independent ON/OFF settings for flexible and precise control.



PRE-DEFINED LAT-LONG DATABASE
Built-in database for Indian cities and custom latitude & longitude setup for accurate timing.



OLED DISPLAY
Clear OLED display for easy viewing of ON Time, OFF Time, Current Time & Date and operating status.



96x96mm FLUSH MOUNT



DIN RAIL MOUNTED

KEY FEATURES



DAILY AUTOMATION
Solution for operating electrical devices daily at fixed time.



MANUAL & ASTRONOMICAL MODE
Switch between Astronomical Sunrise-Sunset mode or Manual Fixed Time mode.



4 DIFFERENT SETTABLE SETTINGS
Program up to 4 independent ON/OFF settings for maximum flexibility.



PRE-DEFINED LAT-LONG
Pre loaded locations for accurate Sunrise-Sunset timing.



OLED DISPLAY
Displays ON Time, OFF Time, Current Time & Date.



MULTIPLE RELAY OUTPUT OPTIONS
Available with 8A / 16A / 90A Relay Output options.



RS-485 COMMUNICATION
Optional RS-485 Modbus for remote monitoring.



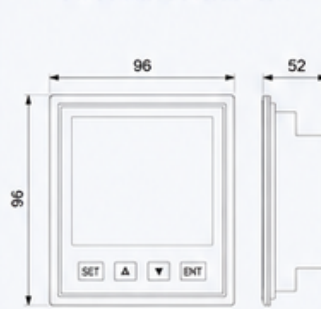
RELIABLE & SAFE
Reliable operation with high accuracy and long life.

TECHNICAL SPECIFICATIONS

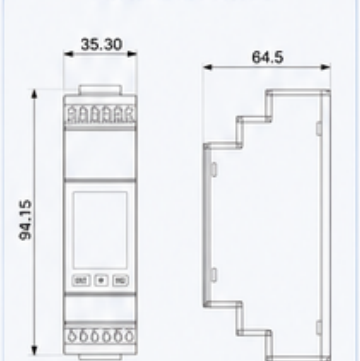
Product Name	Astronomical Timer / Street Light & Tube Well Controller
Supply Voltage	85 - 270V AC/DC, 50/60 Hz
Display	OLED Display
Operation Mode	Astronomical Mode / Manual Mode
Latitude Range	0° to 90° N / S (Selectable)
Longitude Range	0° to 180° E / W (Selectable)
Predefined Locations	Inbuilt database for major cities in India & custom setting
Time Setting	ON Time, OFF Time (Manual Mode)
Astronomical Function	Sunrise & Sunset based ON/OFF (Automatic Mode)
Relay Output Options	8A / 16A / 90A, 250VAC Potential Free
Communication (Optional)	RS-485 Modbus RTU
Mounting	96x96mm Flush Mount / DIN Rail Mountable
Power Consumption	< SVA
Operating Temperature	0°C to +55°C
Accuracy	±1 Sec / Day
Protection	IP20 (Terminals), IP40 (Front)

DIMENSIONS (mm)

96x96mm FLUSH MOUNT

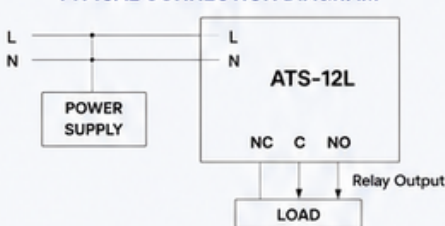


DIN RAIL MOUNTED

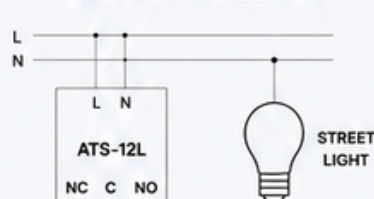


WIRING DIAGRAM

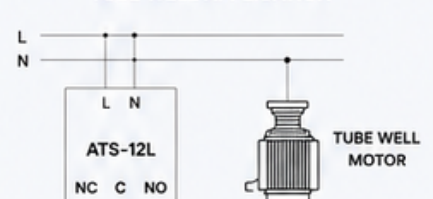
TYPICAL CONNECTION DIAGRAM



STREET LIGHT APPLICATION



TUBE WELL APPLICATION



PRE-DEFINED LOCATIONS (EXAMPLES)

- Mumbai
- Delhi
- Bengaluru
- Kolkata
- Chennai
- Hyderabad
- Pune
- Ahmedabad
- Jaipur
- Lucknow
- Bhopal
- Indore
- Patna
- Nagpur
- Custom Location

APPLICATIONS

- Street Lighting Systems
- Tube Well / Borewell Pumps
- Garden & Park Lights
- Billboards & Signage
- Industrial Automation
- Irrigation Systems



UNITECH

POWERING SOLUTIONS. CONNECTING WORLDS.



SWITCHGEAR



TRANSFORMERS



CONTROL PANELS



GLOBAL EXPORTS

OUR OTHER PRODUCT RANGE

Complete Electrical Measurement, Protection & Energy Management Solutions

DIGITAL PANEL METERS



- V AC Volt Meter
- V DC Volt Meter
- A AC Amp Meter
- A DC Amp Meter
- Hz Frequency Meter
- PF PF Meter
- W Watt Meter
- AVF AVF Meter

MULTI FUNCTION & ENERGY METERS



- Multifunction Meter (MFM)
- Energy Meter
- Dual Source Energy Meter
- DC Energy Meter
- RS485 MODBUS Enabled Meters

RELAYS & PROTECTION



- Voltage Monitoring Relay
- Earth Leakage Relay
- Motor Protection Relay
- Single Phase Preventer
- Water Level Controller
- Astronomical Time Switch

PROCESS INDICATORS



- 4-20mA Indicators
- 0-10V Indicators
- Process Controllers
- Signal Transducers

MAXIMUM DEMAND CONTROLLER



- Demand Control
- Load Management
- Peak Load Monitoring
- Energy Cost Reduction

EMS & SCADA SOLUTIONS



- Real-Time Monitoring
- Cloud Dashboard
- IoT Gateway
- Mobile App
- Data Analytics
- Alarm Notifications

UNITECH PRODUCT PORTFOLIO



INSTRUMENT TRANSFORMERS

- CMCT Round CT
- CMCT Square CT
- Resin Cast CT
- WPL CT
- CBCT
- HT CT/PT Units



DIGITAL
PANEL METERS



MULTI FUNCTION
METERS



ENERGY
METERS



RELAYS &
PROTECTION
SYSTEMS



DC
SHUNTS



EMS & SCADA
SOLUTIONS



SCAN QR CODE

TO VIEW OUR COMPLETE
PRODUCT CATALOGUE

- Current Transformers
- Digital Panel Meters
- Energy Meters
- Relays & Protection
- DC Shunts
- EMS & SCADA Solutions

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PRECISION IN POWER. EXCELLENCE IN EVERY CONNECTION.

Manufacturer of Instrument Transformers, Digital Panel Meters, Protection Relays,
Energy Monitoring Systems & Industrial Automation Solutions.