

TRANSDUCERS MULTIFUNCTION METERS
ISOLATORS CONVERTERS EARTH TESTERS
CAM SWITCHES BATTERY CHARGER CLAMP
METERS EARTH TESTERS INSULATION
TESTERS PAPERLESS RECORDERS BATTERY
CHARGER SHUNTS   TEMPERATURE
CONTROLLERS DIGITAL PANEL METERS
PROTECTION RELAYS MULTI-FUNCTION
METERS ANALOG PANEL METERS PAPERLESS
RECORDERS  GENSET CONTROLLERS
BARRIERS DIGITAL MULTIMETERS BATTERY
CHARGER SHUNTS ANALOG PANEL METERS
PROTECTION RELAYS MULTI-FUNCTION
METERS POWER QUALITY TEMPERATURE
CONTROLLERS CLAMP METERS  SHUNTS
I/O MODULES CURRENT TRANSFORMERS
DIGITAL MULTIMETERS DIGITAL PANEL
METERS ANALOG PANEL METERS POWER
QUALITY POWER SUPPLY I/O MODULES
INSULATION TESTERS    SHUNT
SYNCHRONISING UNIT POWER QUALITY
CURRENT TRANSFORMERS BARRIERS

PANAROMA
CATALOG





Take your equipments online



The next generation IIoT platform

marc is our next generation GSM/LAN based IIoT platform with built in apps for **assets and equipment** for managing efficiency, uptime, productivity, condition monitoring, control, preventive & predictive maintenance.



Plant monitoring | Equipment/Machine monitoring | Energy management | Water management | Solar RMS
Vehicle Tracking | Transformer monitoring | Smart city | HVAC | Weather monitoring

Solar Inverter Selection ' CHECKLIST '

▶ Reliability:

- ✓ Based on technology of GEFRAN, Italy
- ✓ Manufactured by Rishabh Instruments, Your trusted partner since more than 35 years...

▶ Price increase concerns:

- ✓ No extra prices because of new import duties

▶ Requirement for Government projects:

- ✓ 100% Made in India (DCR criteria met)

▶ Cost of ownership

- ✓ 10 years warranty (Zero maintenance cost for 10 years)

▶ Support concerns:

- ✓ On-site service

▶ Additional benefits:

- ✓ Option of in-built DCDB in all models 10kW-50kW
- ✓ Free SIM card & free recharge for 5 years



- GSM connectivity via in-built gateway
- With remote monitoring

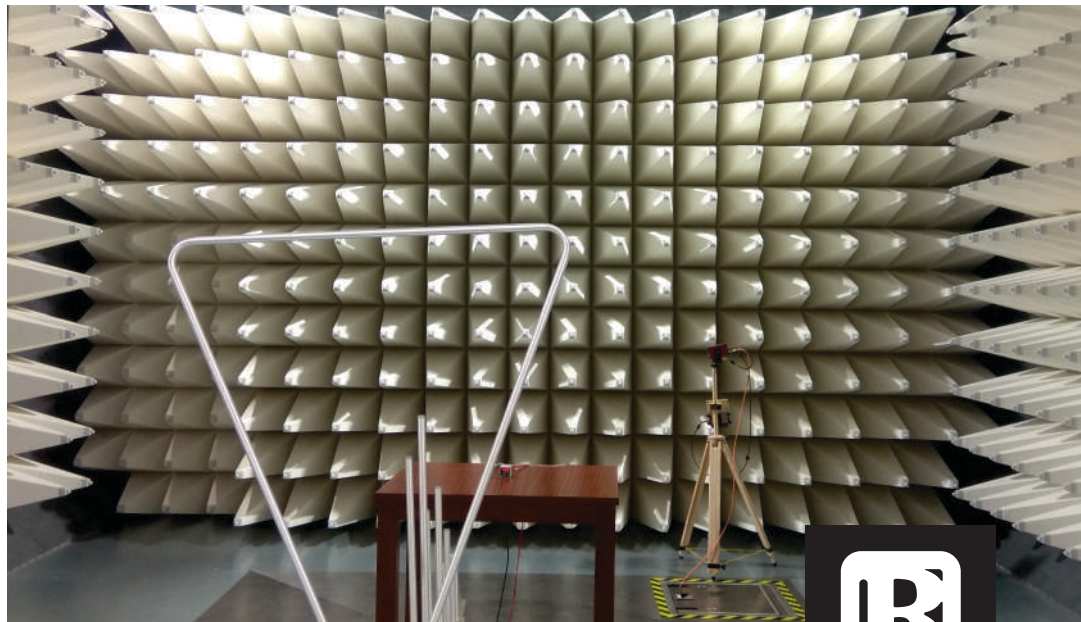


Rishabh Instruments Limited

an Indian Multinational Company
with manufacturing factories in India and Poland

RISHABH INSTRUMENTS LIMITED.

Head office: F-31, MIDC, Satpur, Nashik - 422007, India | Regd. office: A-54, MIDC, Andheri (E), Mumbai - 400 093, India
tel: +91 253 2202019/46 | Whatsapp: 9342411534 | e-mail: inverters@rishabh.co.in | web: www.radius.rishabh.co.in



Rishabh Testing and Calibration Laboratory

NABL Accredited as per latest ISO / IEC 17025-2017 standard

Our Facilities

- EMI/EMC test facility including 3 m Anechoic Chamber
- Type-Testing facility for Energy Meters, Transducers, Digital multimeter & Digital Panel Meters
- Environmental Testing facility
- Electro-Technical calibration facility for Voltage, Current, Power, Resistance, Capacitance, Frequency & Temperature
- Mechanical Testing facility



Test Set-Up

- Radiated Emission
- Conducted Emission
- Conducted Susceptibility
- Surge Immunity
- Electrostatic Discharge
- Power Frequency Magnetic Field
- Electrical fast Transient
- Radiated Susceptibility
- Voltage Dips & Interruption



Measure



Control



Record



Analyze

Address: C-6, Trishala Unit, NICE Area, MIDC, Satpur, Nashik - 422005, India.

www.lab.rishabh.co.in | praveen.chaplot@rishabh.co.in | +91 253 2202307, +91 9950407892

Multi-Function Meters



Basic LED Range



RISH Optima /
Delta VAF



RISH Delta Power



RISH Delta Energy



NEW

RISH CR12

RISH CD30/60

- On site programmable 1Ph/3Ph meters
- TRMS measurement with universal aux supply (40-300V AC/DC)
- Measures VAF, PF, Power, Energy, Demand etc.
- Class 1 accuracy
- Panel mounted (96x96mm)
- Optional RS485 communication (Delta Energy)
- Relay Output (Optional)
- Compact VAF 48 X 48mm - CD30/60, CR12 with 0.5 Accuracy
- Optional RS485 MODBUS

Standard LED Range



RISH Master 3430



RISH Master 3440

- 1Ph/3Ph meters with On site programmable CT/PT ratios
- Measures VAF, PF, Power, Energy, Demand, THD, etc.
- Optional RS485 (MODBUS) or Ethernet protocol (MODBUS TCP/IP)
- Optional Analog and Relay output
- Panel mounted (96x96mm)

Standard LCD Range



RISH EM 1330



RISH EM 1340

- On site programmable 1Ph/3Ph, CT/PT ratios
- Measures VAF, PF, Power, Energy, Demand, THD, etc.
- True RMS Meter with Phase & Current Reversal Indication
- Energy as per IEC 62053 with optional RS485
- Optional Relay output
- Panel mounted (96x96mm)

Advanced Touch Screen Graphic Range



RISH Master 3430i



RISH Master 3440i/iDL

- Measures more than 40 electrical parameters
- Touch screen Graphics LCD with custom color setting
- On site programmable CT/PT ratios with phase reversal indication
- Phasor diagram and pictorial representation of Waveform
- Panel Mounted (96x96mm)
- Data logging, PQ Events & RTC (Rish Master 3440iDL)

Load Manager



RISH LM 1360



Connection with plug & play CT



RISH LM 1340



RISH LM 1380

NEW

- Big LCD display with Backlit (4 parameters along with 9 digit energy counter)
- Energy as per IEC 62053/IEC 61557-12: Accuracy class 0.2s/0.2 or 0.5s/0.5
- THD and Individual Harmonics measurement upto 31st level
- Relay output can be configured for RTC and timer
- User assignable screens
- Plug and Play RJ12 CT option (Accuracy Class 1)
- Data logging, RTC (Real Time Clock), USB interface
- GSM gateway module
- Communication (MODBUS -RTU , MODBUS- TCP/IP)
- Digital Inputs as status indication, tariff, pulse counter

MultiLoad Monitor

New



RISH ML 1400/ 1410



RISH RJ05/ RJ01



RISH RJ00



RISH RC30



- Multiple circuit monitoring (4 x 3Ph or 12 x 1Ph) - System Transparency @ a glance with energy saving
- Residual current monitoring and tripping
- Prepaid Tariff based tripping
- Health Monitoring of Three Phase Load
- Data Logging, RTC (Real Time Clock)
- Plug and Play RJ12 CT option, Flexible DIN mounted quick fix modules (RJ00, RJ01, RJ05, RC30)
- Multiple class option (Class 1 or Class 0.5s as per IEC 62053)
- Direct remote access via communication (MODBUS - RTU, MODBUS TCP/IP)
- Relay Output (optional 2 or 4)
- THD and Individual Harmonics measurement upto 31st level
- Easy and Cost effective installations

2G GSM Gateway



- Utility software with GSM module
- MFM communication media - RS 485 MODBUS and 2G internet media with cloud server
- Multiple digital Rishabh Multifunction meters can be configured
- Live data viewing - Complementary (Software - lite.marcloud.live)
- Facility of report generation for data analysis - Paid version (Software - lite.marcloud.live)
- Online software updates
- End user can configure or add more slave devices himself as and when required
- Compatible with LM 1360, EM 1320/ 30/ 40 & EM 2340

Energy Meters



Single Source Energy Meters



RISH EM 3490SS



RISH EM 1320

- On site programmable 1Ph/3Ph meters
- True RMS Energy meter for energy monitoring
- Active and Apparent energy measurements
- LED & LCD both models available
- Energy as per IEC 62053 with optional RS485
- Panel mounted (96x96mm)

Dual Source Energy Meters



RISH EM 3490DS



RISH EM 2340DS

- Energy for Utility and Generator
- True RMS Dual Source Energy Meter
- Onsite programmable with Phase reversal indication
- LED & LCD both models available in 96x96mm size
- Energy as per IEC 62053 with optional RS485
- Pulse / Relay Output (Optional)

DC Energy Meters



RISH EM DC



- Measure, display and communicate DC voltage, current, power & energy
- Single/ Multi channel support with RTC based data storage
- Onsite programmable with RS485 communication
- Isolated input voltage and current channels
- Panel mounted (96x96 mm)
- Load profile analysis with event logging
- 2 Relay / 4 Relay (Optional)

Basic Meters



ND10



ND20 / ND20Lite / ND20CT

- Measurement of Power network parameters in 4 wire balanced and unbalanced systems
- THD factors for currents and voltage
- Alarm output & pulse output for active energy
- RS485 interface output with MODBUS protocol (Optional)
- Protection grade from the frontal side: IP65
- Individual Harmonics (ND20 only) & THD Measurement
- 3Ph connection through RJ12 connector (ND20CT only)

DIN Rail Mounted Meters



N43



N27D



N27P

- 12 programmable screens / pages (N43 only)
- Backlit LCD display
- Digital transmission to the master system through the RS485 interface with MODBUS protocol (N27P, N43)
- Modern design suitable for switchgear DIN Rail mountable

Advanced Power Quality Monitors



ND30
(IoT/PNET/BAC)



N100



NR30
(IoT/PNET/BAC)

- Configurable alarm outputs
- Analog output 0/4....20mA and PT100 inputs (ND30 & ND30 PNET only)
- Data logging in the internal memory 8GB (ND30 & N100 only)
- Digital output RS485 - MODBUS protocol
- Ethernet with MODBUS TCP/IP inbuilt www and FTP server (ND30 only)
- Profinet communication (ND30 PNET only)
- BACnet communication (ND30 BAC only)

Synchronising Unit



NS5

- Color graphic display 3.5" TFT
- Range of input signals: 50...150V or 150...400V
- Programmable hysteresis of voltage difference, frequency and phase shift angle
- Ethernet with MODBUS TCP/IP inbuilt www and FTP server
- RS485 with MODBUS RTU protocol

Next Generation Power Meters



Power Quality Monitors



RISH PQM

- Energy class 0.5S as per IEC Std 62053-22
- Configurable time zones, seasons, tariffs profile, types of days which helps in energy trend analysis
- Individual harmonics upto 56th measurement
- Custom color setting for each phase via display and MODBUS
- Panel mounted (96x96 mm)
- Optional RS485 MODBUS or Ethernet (MODBUS TCP/IP)

Dual Source Energy Meter



RISH EM 3490 DSi

- Important parameters for Utility and Generator for 3Ph networks
- Electrical load monitoring with power quality
- Direct cost calculation for energy for Utility and Generator
- Panel mounted (96x96mm)
- ACCL (Auto Connect Current Limiter)

Demand Controller



RISH DMCI

- Touch screen demand monitor and Max demand controller
- Separate thresholds for each time zone
- User selectable window types - Fixed or Sliding window
- Max demand with date and time stamping
- 4 potential free contacts for Demand control
- Energy class 0.5S as per IEC 62053-22
- Panel mounted (96x96mm)

Power Quality Analyzer



Panel Mount PQA



RISH PQA

- Compliance monitoring as per EN 50160
- Recording of all parameters for Power Quality Analysis
- External Memory Card Option
- Accuracy class 0.2S as per IEC 62053-22
- Fault analysis in case of failure
- Phasor representation & waveform
- Panel mounted (144x144mm)
- USB option for data transfer and configuration
- Individual harmonics analysis upto 63rd level



ND45

- Compliance to EN 50160 / IEC 61000-4-30 (Class S&A)
- Measurement of over 500 electrical parameters
- Individual harmonics measurement for current and voltage upto 51st level
- Data recording with inbuilt www & FTP server
- Event capturing such as Voltage Swag / Swell / Interruption / Flicker etc.

Portable PQA



NP45

- Waveform real time display (4 voltages / 4 currents)
- Half cycle RMS measurement (voltage and current)
- Measurement of voltage, current, harmonics, power, energy, inrush current, flicker and others
- Current measurement using Flexi clamps from 50A to 5000A
- Record of events: dips, swells, over voltages
- Power quality according to EN-50160 standard or user defined limit

Isolators



Tap Position Transducer
RISH CON TPT



Signal Isolator
RISH CON SI 101/102



Programmable
Signal Isolator
RISH PI 101/102

- Measuring ranges configurable with switch and potentiometer
- LED indicator
- Universal (AC/DC) power supply
- Accuracy class 0.2
- DC programmable Isolators
- Unipolar / Bipolar isolating amplifier
- Universal transmitter

Digital Expertise



Universal Transmitter
RISH Ducer V604



Isolating Amplifier
RISH Ducer TV808



Temperature Transmitter
RISH Ducer PT602

- Onsite programmable inputs and outputs
- Electrically isolated inputs, outputs & power supply
- EMC compatible IEC 61326-1
- IEC STD 61010-1 : 2010

Transducers



Power Transducer
RISH CON P



Current / Voltage
Transducer
RISH CON I / RISH CON V



Frequency Transducer
RISH CON Hz

- Electrical isolation between all transducer connections
- True RMS (upto 15th) with bent characteristics
- PC simulation
- Optional display and RS485 communication
- Type: Current, Voltage, Frequency, Power, Power Factor & Phase Angle Transducers with single and dual output
- Multifunction Transducer with Analog / Digital outputs
- 1Ph / 3Ph, 3W / 4W
- Applicable standard : IEC 60688



Voltage / Current Transducer
RISH CON CV/CA
(Single Output)



Current / Voltage Transducer
RISH CON CA / CV
(Dual Output Avg)



Multifunction Transducer
RISH CON M⁺



Multifunction Transducer
M20 / M24 / M40
M30 / M42 / M01 / M00



CT with Transducer
RISH CT Ducer

Basic Transducers



P20



P20H



P20Z



P17G/P17



P21Z

- P20 - Transducer of Temperature and Standard Signals
 P20H - Transducer of DC Voltage or Current
 P20Z - Transducer of AC Voltage or AC Current
 P21Z - Transducer of AC Voltage, Current or Frequency
 P17 - Voltage or temperature input
 P17G - Current input

- Output: 0/4...20 mA, 0...10V or RS485 with MODBUS protocol
- Output signal galvanically isolated from the input signal and the supply
- Possible programming of following parameters through the PD14 programmer and the free LPCon program
- Supplied from a current loop (P17 / P17G only)
- Accuracy class 0.2
- Supply voltage: 85...253V AC (45...65 Hz) / DC 20...40V AC (45...65 Hz) / DC

Temperature & Humidity Transducer



P18D



P18



P18S



P19

- P18 - Temperature & Humidity Transducer without Display
 P18D - Temperature & Humidity Transducer with Display
 P18L - Temperature & Humidity Transducer without Display
 P18S - Temperature & Humidity sensor with RS485 output
 P19 - Temperature & Humidity Transducer with built in sensor

- Measurement of physical quantities (dew point, temperature, absolute humidity)
- Analog Output signals (P18 series)
- Memory of maximal and minimal value
- Programming of the measurement averaging time
- RS485 interface (P18D, P19 only)

Advance Transducers with Display and Recording function



P30U P300 P30H P30P

P30U - Universal input (Standard signals & Temperature input)
 P300 - Number of Pulses, Frequency, Rotational speed, Period work-time counter, Encoder
 P30P - 1 Phase AC parameters
 P30H - Higher DC current & DC voltage

- Output - Programmable Analog (Current or Voltage) / 1 or 2 x relays / Digital RS485
- Linear scaling with individual 21 point characteristics (P30U 7 P300)
- Mathematical functions
- Option with SD card / Ethernet interface and inbuilt 8GB memory

AC Transducers



P41 P43

Ultrasonic Level Transducer



ULT21

P41-1 Phase Transducer of Power Network Parameters
 P43-3 Phase Transducer of Power Network Parameters
 ULT20/21 : Level measurement upto 10/15m

- Input signal: AC current and AC voltage
- Outputs: Relay / Analog / Pulse
- RS485 and USB interfaces with MODBUS protocol
- Transducer programming realized by means of a free LpCon or E-Con software

Power Supply & Battery Charger



Flex 28024A (1 Phase) Flex 50024A (1 Phase) Flex 17048A (1 Phase) Flex 28048A (1 Phase) Flex 50048A (1 Phase) Flex 9024B (2 Phase) Flex 17024B (2 Phase)



Flex 28024B (2 Phase) Flex 50024B (3 Phase) MR220 Decoupling Module PST2430B (3 Phase)

Note : Flex series available only for : Middle East, Africa & Asia

- Three protection modes:
Hiccup mode - Continuous mode - Manual reset
- Protections: Short, Circuit, Overload, Over-Voltage
- Available in 1Ph, 2Ph and 3Ph
- Declared ambient temperature on field i.e. 40°, 50° & 60°C
- Compliance to EN60204-1 & Ingress Protection according to EN 60529
- Din rail mounting
- Compact size
- Available in output ratings of 5, 12, 24 & 48V with current from 1A to 40A
- Efficiency: 91%



RISH Flex-e 9024A (1 Phase) RISH Flex-e 17024A (1 Phase) RISH Flex-e 9024B (2 Phase) RISH Flex-e 17024B (2 Phase)



RISH Flex-e 3024A RISH Flex-e 4524A RISH Flex-e 6024A RISH Flex-e 1524A



Battery Charger

- Efficiency: 86%
- Output Ripple < 120mv
- Three Stage Charging - Float, Boost, Bulk
- Boost mode for rapid charging
- Overload Protection, Temperature Protection & Battery Reverse Polarity
- MTBF 5,00,000 Hrs

Protection Relays



RISH Relay-I AC Current RISH Relay-V AC Voltage RISH Relay-V/Hz Combined Voltage & Frequency Relay RISH ELR VI Earth Leakage Relay



RISH Relay - PHR RISH Relay - AR RISH Relay - VR RISH Basic ELR

- Trip relay cum DPM having 4 digit 7 segment LED display
- True RMS measurement
- Dual color LED for fault indication
- Stores last 15 fault
- Configuration via USB based PRKAB
- User selectable password protection
- Universal wide range Auxiliary supply
- Pre Alarm function
- Panel mounted (96x96mm)
- Din rail mounting

Digital Panel Meter



4 digit Power / power Factor DPM (Size - 96 x 96, 72 x 144mm) Programmable DC RISH EINE (Size - 48 x 96mm, 96 x 96mm)



4 digit Frequency DPM (Size - 48 x 96, 96 x 96mm) Programmable AC RISH EINE (Size - 48 x 96, 96 x 96mm)



4 1/2 digit DC Ammeter, Volt Meter (Size - 48 x 96, 96 x 96mm) 4 1/2 digit, 1" display DC Ammeter / Volt Meter (72 x 144mm)

- Available type: AC, DC, Current and Voltage, Frequency
- 1Ph, 3Ph programmable DPM
- Universal Auxiliary Supply
- Enclosure protection for dust and water
- TRMS measurement
- 4 & 4 1/2 Digit ultra bright LED display
- Accuracy class for AC : 1.0 & 0.5 (Optional)
- Accuracy class for DC : 0.5 (EINE +) & 0.1 (4 1/2 Digit DC meter)

Basic Series with 4 & 5 Digit Display



N24

N25

- 4 & 5 digit LED display, digit of 14mm & 20 mm height
- Display range configuration using PD14 Programmer
- Precision of displayed results (decimal point)
- Measurement averaging time
- Re-scaling of indications (individual characteristics)
- Automatic or manual compensation: temperature of cold junction for measurements with thermocouples or wire resistance for PT100 sensors (N24 / N25T)
- Casing protection grade: IP65

Digital Expertise

OLED Display Digital Meter



N21

- Universal measuring input (standard signals & temperature)
- Relay alarm output
- Universal supply voltage from 24V upto 230V AC / DC
- Supply of object transducers 24V DC
- OLED display
- Programming through mini USB and E-con software
- User defined unit of measurement
- Protection grade: IP65

Basic series with Tri-color Display



N20HPlus



N20/ N20Plus



N20Z/ N20ZPlus

N20/ N20Plus - DC Current, DC Voltage, Temperature
N20Z/ N20ZPlus - AC Current, AC Voltage, Frequency

- 2 alarm outputs of OC type (4 types of alarms) signaled by highlight of the alarm index
- Protection level ensured by the housing: IP65
- Readout field: 5 Three color LED displays of 14 mm height
- Highlighted measuring units
- Supply: 85...253 V AC / DC or 20...40 V AC / DC
- Overall dimensions: 96 x 48 x 64 mm
- RS485 MODBUS communication for N20HPlus, N20Plus & N20ZPlus

Advance Series Programmable Digital Meter



N30U



N30H



N30P



N30O

N30U - Universal input (Standard Signals & Temperature Input)
N30H - 1A / 5A DC Current & DC Voltage 100 V / 500 V
N30P - 1 Phase AC parameters
N30O - Number of Pulses, Frequency, Rotational speed, Period work-time counter, Encoder

- Output: Relay (4), Analog (1), Digital RS485 / MODBUS(1)
- Three-color display with digit height: 14mm & Highlighted measuring unit
- Four alarm outputs with operating in six different modes
- 21 point individual characteristics
- Supply: 85...253 V AC / DC or 20...40 V AC / DC
- Casing protection grade: IP65
- Overall dimensions: 96 x 48 x 93 mm

Next generation DPMs N32x



N32U



N32H



N32P



N32O

N32U - Universal input (Standard Signals & Temperature Input)
N32H - DC Input
N32P - 1 Phase AC parameters
N32O - Number of Pulses, Frequency, Rotational speed, Period work-time counter, Encoder

- New generation of Digital Panel Meters
- Multi-purpose input for measuring - 4 modes for different parameters & application
- High visibility LCD display
- Programmable unit of measured quantity - no additional unit / caption sticker required

Digital Bargraphs



NA3



NA5PLUS / NA6PLUS

NA3 - Horizontal type Bargraph
NA5PLUS - Vertical type 1: Measuring Channels
NA6PLUS - Vertical type 2: Measuring Channels

- Input: Universal Programmable Input
- Output: Analog / Relay / OC
- Digital: RS485 with MODBUS protocol
- Supply: 95...230...253 V AC / DC, 20...24...40 V AC / DC, 20...60 V DC

Recorders



KD8
Screen Recorders



KD7
Screen Recorders



KD6
Screen Recorders

NEW

- Universal Programmable Input and Output
- Mathematical functions
- Data archiving on compact flash card - 4GB internal memory
- Remote accessible through web server and MODBUS
- Various form of graphical representation
- Logic channel for connecting input and output
- Inbuilt www and FTP server
- LCD touch screen user interface (KD7 & KD8 only)



PD22
Data Logger



SM61IoT
Data Logger



HT20IoT

I/O's & Converters



Input / Output Modules



SM1

SM2

SM3

SM4

S4AI

SM5

- Converts Analog signal, Digital & Pulse input to MODBUS communication
- Available in various modes with respect input / output

Converters



PD9

PD10

S4A0

PD51

- Easy installation of drivers
- Compact size

Temperature Controllers



RE56

RE57

RE77

RE96



RE01



RE22



RE70

- Binary input to control the controller's functions (RE01 only)
- Output for on-off control and one output for alarm signaling (RE01 only)
- Internal sound signaling device (RE01 only)
- Parameters protection by a password
- Universal input like RTD, PT100, TC etc.
- Output: Relay, Binary 0/6 V
- Manual setting of PID parameters or by means of the auto adaptation
- Supply: 230 V AC, 110 V AC, 85...253 V AC DC

Temperature Controllers



RL10



RE71



RE81



RE62



RE72



RE82



RE92

- Deactivation of the control system in the case of excessive temperature or in the case of sensor error
- Wide range of alarm settings
- Universal input for thermocouples and resistance thermometers
- Relay output for disconnecting the temperature control system
- Product configuration by using buttons of free E-con software
- Lockout of controlled system reconnection

- Control according to: PID algorithm / ON / OFF algorithm / Heating / Cooling algorithm / Step-by-step control
- Direct co-operation with: RTD & TC
- Automatic selection of PID parameters
- Self-acting and precise selection of PID settings
- Easy and simple solution for technical service
- Lack of overshoots or small overshoots
- 2 configurable control outputs: Relay or SSR driving voltage
- Programmable using PD14 programmer
- IP65 protection level

- Universal input
- Control: Dual-point PID algorithm / ON - OFF
- 3 outputs depending on the execution: Relay / SSR / Analog
- Interface RS485 with MODBUS protocol (optional)
- Modular design for 35 mm rail according to EN 62208
- Universal supply: 22...60 V AC / 20...60 V DC OR 60...253 V AC / 60...300 V DC

- Universal measuring input and secondary input: Logic & Analog
- Output: Relay, OC type, Continuous or Binary for SSR control
- Control algorithm: On/Off. 15 programs with 15 segments in each valve control (step by step control)
- Automatic selection of PID parameters
- Soft start & Timer function
- Alarm latch function applied in safety controllers
- Measurement of heater current and heater burning control or short-circuit of the control element (e.g. SSR)
- IP65 protection grade

- Independent dual loop with PID, ON/OFF, Three step control of heating cooling and step by step control
- SMART PID algorithm with auto tuning function
- 4 sets of PID parameters and additional set for cooling (for each channel)
- 6 types of alarm with programmable hysteresis
- Gain scheduling feature
- Digital communication - RS485 (Standard), Ethernet (Optional)

Genset Controllers



- Fuel level and Oil temperature
- Voltage drop immunity
- Digital / Analog inputs and Outputs programmable from keyboard
- Remote start / stop
- RS232 - RS485 independent serial interfaces
- Engine CANBUS communication J1939

Analog Panel Meters



Moving Iron AC Ammeters and Voltmeters 90deg (EQ)



Moving Coil DC Ammeters and Voltmeters 90deg (PQ)



Moving Coil AC Ammeters and Voltmeters with Rectifier 90deg (VQ)



Frequency Meter 90deg (ZQ)



Power Factor Meter 90deg (CQ)



Power Meter 90deg (WQ)



Moving Coil DC Ammeters and Voltmeters 240deg (PL)



Moving Coil AC Ammeters and Voltmeters with Rectifier 240deg (VL)



Frequency Meter 240deg (ZL)



Power Factor Meter 240deg (CL)



Power Meter 240deg (WL)



Maximum Demand Ammeters (BIQ & BIEQ)



Dual Moving Iron AC Meters (EQ 2 in 1)



Dual Moving Coil DC Meters (PQ 2 in 1)



Dual Frequency Meters (ZQ 2 in 1)



Moving Iron Selector Switch Meter (SS)



Elapsed Time Meter (Hour Run Meter) (ETM)



Vibrating Reed Frequency Meter (FQ)



Synchroscope (SQ)



Anush Series Meters



Vista Series Meter



Challenger Series



Phase Sequence Indicator



NEW

Shunts



- Available from 1A to 15000A
- Available in Voltage drop: 50 mV / 75 mV / 100 mV / 150mV
- Accuracy class: 0.5, 1.0 (Class 0.2 for upto 2500A)
- Shunt dimensions according to IS 1248 – 8 and DIN 43703 standard

Product Images not to the scale

Current Transformers

LV Current Transformers



RISH Xmer Wound Primary Current Transformers Series



RISH Xmer Split Core

- Applicable standard: IEC 61869-1 & 2
- Type: Wound Primary, Busbar Type, Tape Wound, Protection Type, Split Core, Summation CT, 3 Phase CT, Resin CT, Nano CT
- Accuracy Class:

- 0.2, 0.25 for laboratory measuring
- 0.5, 0.5S for accurate measuring
- 1 for general measurement
- 3 for indicating measurements



RISH TW Series



Nano CT

- System Voltage: 720 V maximum
- Rated Primary Rating: 1A to 7500A
- Rated Secondary Output: 5A standard (1A on request)
- Nano & 3 in 1 CTs with RJ12 connection with 100 mA output
- Cost effective molded case current transformer
- Various mounting options
- Wire sealable terminal covers
- Unfilled polycarbonate housing (UL94 V-0)
- Supplied with individual routine certificates



RISH Xmer Current Transformers Series



Compact Split Core CT



3 Phase CT



Resin Cast CT



Nano CT with RJ12



3 Phase RJ12 CT



Single Phase RJ12 CT

NEW

CAM Switches



ASS (R & Y combo)



Reverse Forward Cam Switch



Spring Returns Switches



LED Cam Switch (Two variants)

NEW



TNC - Breaker Control Switches

- Instrumentation, Changeover, Multistep & isolator switches are available
- Current Rating: 6A, 10A, 16A, 20A, 25A, 32A, 40A, 63A, 100A & 200A
- Long mechanical life
- Successfully type tested from NABL accredited laboratory
- Long distance visibility
- Customized name plates
- TNC, Spring Return, Reverse Forward switches also available
- Available in Black-Grey & Red & Yellow color options

Test & Measurement Expertise

Digital Multimeters



RISHABH Young/iYoung RISHABH DMM 410 RISHABH DMM 612/13/15/16 RISHABH DMM 6012/13/15/16



Max 10 Mit 30 Multi 12S 135/145/155/165



Multi 20 Maintenance tool kit

- 60,000 counts True RMS measurement
- Data logging upto 32000 readings with real time data
- Plug and Play USB connectivity with PC
- 100KHz bandwidth for voltage measurement
- 1KHz low pass filter mode for VFD applications
- Square wave output with selectable duty cycle and frequency
- Selectable clamp ratio for current measurement upto 6000A
- External power adapter for uninterrupted measurements
- Temperature measurement with J, K, PT100 & PT1000 sensors
- Fully programmable GO-ON-GO function
- Also available in Bluetooth connectivity with mobile via Android, iOS app and PC Software

- Automated terminal blocking system (ABS)
- TRMS measurement
- MIN MAX value storage
- Protective rubber holster for rough duty
- Power economizing circuit
- Auto ranging / manual range selection
- Backlit for better visibility
- 3 years warranty
- CAT IV (600V) / CAT III (1000V)
- Rugged, Reliable & Robust

Digital Clamp Meters



Clamp 1000A/1A
Clamp 1000A/5A
Clamp 300A/0.3A RISH Clamp 300A AC
300A AC/DC
ES 400A AC RISH Clamp 1000A AC
1000A AC/DC
ES 1000A AC

- Unique design patented by RISHABH
- Large jaw opening with 180° rotation to avoid difficult measuring positions
- Narrow housing for firm grip and easy to carry
- AC & DC voltage upto 1000V
- AC & DC current upto 1000A/300A/400A
- Null zero correction for resistance and capacitance
- Analog scale and auto power OFF
- Rish Clamp Solar with 1500 V DC voltage and 1500 A AC / DC current



Trigger on Back Side Rotating Jaw RISH Clamp Power Meter 1000A/ 400A AC/DC RISH Clamp Solar

- AC & DC voltage upto 1000V
- AC & DC current upto 1000A / 400A
- Inrush and Peak value measurement
- Three Phase Active, Reactive & Apparent Power measurement without any manual calculation
- Horse power measurement , Energy measurement
- Measure upto 49th Harmonics and THD as well
- Phase angle, Power factor, Crest factor, Distortion factor
- LPF mode for VFD application
- Rish Clamp Power with Bluetooth communication & mobile app.

Note: For model-specific certification kindly contact sales engineer

Test & Measurement Expertise

Insulation Tester



Insu 10



Insu 20



Mit 30



Hand crank HV/LV insulation tester



LV Polycarbonate Body Insulation Tester



AIT 501 5KV Digital Insulation Tester



RISH Insu 5000



RISH Insu 5Dt



RISH Insu 5Dx/10Dx

- Insulation Resistance measurement from 10kOhm to 3GOhm
- Selectable test voltages 50V / 100V / 250V / 500V / 1000V
- Live circuit detection >25V
- Automatic Discharge of capacitive circuits after test performed
- Voltage measurement from 25V to 600V AC / DC
- GO-ON-GO test facility
- Robust units: Ideal for portable testing
- Test voltages from 50V to 5000V, 10kV & Insulation resistance measurement upto 10 TΩ, 20TΩ: To cater wide applications
- DC / AC voltage measurements upto 2000V: To check live voltages if any present in DUT
- PI, DAR, RAMP, DD, Burn mode
- Complies to International Standards
- IP & CAT Protection
- Short circuit current upto 6mA
- Mobile app facility
- Internal memory
- PC communication via RS232, USB & Bluetooth
- Suitable to test in live switchyards (Rish Insu 5Dx+ / 10Dx+)
- First ever Touch Screen TFT color display and Audio readout of test results, making it highly user friendly (Rish Insu 5Dt & 5Dx+ / 10Dx+)
- Operation on Mains / Hand Crank / Rechargeable Battery

Earth Tester



Analog Earth Tester



AET 23 Smart Digital Earth Tester



AECT 12 Smart Earth Clamp Tester

- Measurement of earth resistance upto 10,000 Ohm
- Wide range of Measurement with very fast response
- Labeled terminals as C1, P1, P2, C2 for easy connection
- Soil Resistivity testing
- Internal Memory to store readings
- AECT 12 measures up to 1500 ohm resistance
- Jaw size is 65 x 32 mm
- Internal data logging up to 99 readings

Leakage Clamp Meters



- Compact size leakage clamp meter
- AC current measurement from 1uA to 60A for ALCT66A
- Large jaw opening
- Data storage facility upto 99 records
- Complies with CE & CAT
- Software facility for report generation

Rishabh Test Leads



- Fully flexible silicon test leads
- 4mm spring engagement for firm connection
- Sharp tips for precise measurement
- High thickness of insulation for additional safety
- 19 mΩ/meter very low contact resistance for accurate measurement
- Complies with CAT IV 600V

OUR GROUP OF COMPANIES



Rishabh Instruments HQ and Operational setup-Area- 10,240 Sq. Mtrs.



Rishabh testing and calibration laboratory -Area- 9,195 Sq. Mtrs.



LUMEL Alucast Zielona Gora, Poland: Area- 17,000 Sq. Mtrs.



LUMEL SA Plant A- Zielona Gora, Poland-Area- 12,000 Sq. Mtrs.



SIFAM TINSLEY-UK, Braintree - Sales & Marketing Office



SIFAM TINSLEY-USA, Atlanta - Sales & Marketing Office



Shanti Instruments, Andheri, Mumbai - Area- 4181 Sq. Mtrs.

ISOLATORS MULTIFUNCTION METERS
PROTECTION RELAYS DATA LOGGER
ANALOG PANEL METERS CAM SWITCHES
BATTERY CHARGER DIGITAL BARGRAPHS
SHUNTS CLAMP METERS POWER SUPPLY
PAPERLESS RECORDERS PROTECTION
RELAYS GENSET CONTROLLER DIGITAL
MULTIMETERS SHUNTS SOLAR INVERTER
POWER QUALITY PAPERLESS RECORDERS
INSULATION TESTERS ENERGY METERS
GENSET CONTROLLERS SOLAR INVERTER
PAPERLESS RECORDERS SYNCHRONISING
UNIT PAPERLESS RECORDERS CE CURRENT
TRANSFORMERS INSULATION TESTERS
DIGITAL MULTIMETERS UL  EARTH TESTERS
PROTECTION RELAYS POWER SUPPLY
BATTERY CHARGER SYNCHRONISING UNIT
ANALOG CONVERTERS DIGITAL PANEL
METERS PAPERLESS RECORDERS
PROTECTION RELAYS CLAMP METERS
ANALOG CONVERTERS SOLAR INVERTER
POWER SUPPLY CAM SWITCHES CE BARRIERS

*Product upgradation is a continuous process. Hence, data in this catalog is subject to change without prior notice. For the latest information, please get in touch with our Sales Offices.

RISHABH INSTRUMENTS LIMITED

F-31, MIDC, Satpur, Nashik - 422007, India
marketing@rishabh.co.in | +91 253 2202028/099
www.rishabh.co.in