RISHABH

# Empowering Sustainability with Smart Solutions

**Digital Expertise**

## Rishabh Instruments Limited

Price List w.e.f. January 2025

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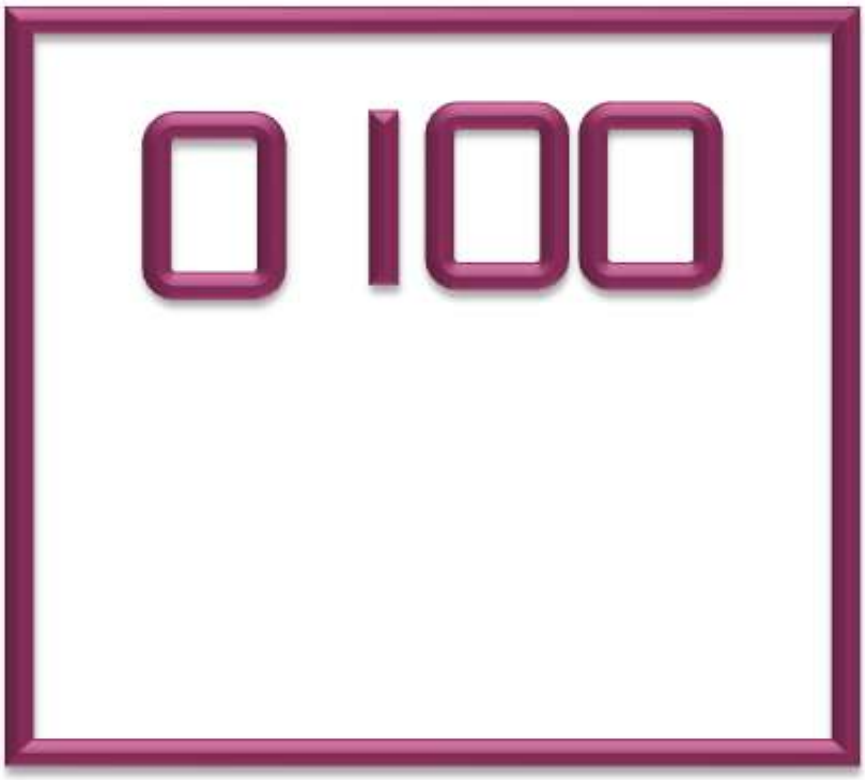

# Digital Panel Meters

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| KMAT | Model | Size ( H x W x D) | Description | Auxiliary Supply | LP (INR) |
|---|---|---|---|---|---|
| **Programmable AC Ammeter** | | | | | |
| EP99 | RISH EINE I | 48 x 96 x 68 mm | Input : 1A /5A (Programmable)<br>Display : 14 mm LED Display<br>1 Phase Network<br>Accuracy Class : 1.0<br>4 Digit | 40…300V AC/DC or 20...40V AC / 20...60V DC | 930 |
| | | | Input 1A /5A (Programmable)<br>Display : 14 mm LED Display<br>3Ph 3W/4W Network<br>Accuracy Class : 1.0<br>4 Digit | | 1,545 |
| | | 48 x 96 x 68 mm | Input : 100mA (Primary - 63 / 125 / 250A programmable)<br>Display : 14 mm LED Display<br>3Ph 3W/4W Network<br>Accuracy Class : 0.5<br>4 Digit | | 1,705 |
| ED99 | RISH EINE NX* NEW! | 96 x 96 x 40 mm | Input : 1A /5A (Programmable)<br>1 Phase Network<br>Accuracy Class : 1<br>4 Digit | 60…300V AC/DC | 750 |
| | | | Input : 1A /5A (Programmable)<br>3Ph 3W/4W Network<br>Accuracy Class : 1<br>4 Digit | # or 24V DC or 48V DC | 1,230 |
| **Programmable AC Voltmeter** | | | | | |
| EP99 | RISH EINE V | 48 x 96 x 68 mm | Input : 57.5 -300 V L-N (Programmable) & 600V LN (Fixed)<br>Display : 14 mm LED Display<br>1 Phase Network<br>Accuracy Class : 1.0<br>4 Digit | 40…300V AC/DC or 20...40V AC / 20...60V DC | 930 |
| | | | Input : 100- 500 V L-L (Programmable)<br>Display : 14 mm LED Display<br>3Ph 3W/4W Network<br>Accuracy Class : 1.0<br>4 Digit | | 1,545 |
| ED99 | RISH EINE NX* NEW! | 96 x 96 x 40 mm | Input : 57.5 -480 V L-N (Programmable)<br>1 Phase Network<br>Accuracy Class : 1<br>3 Digit | 60…300V AC/DC | 750 |
| | | | Input : 100- 500 V L-L (Programmable)<br>3Ph 3W/4W Network<br>Accuracy Class : 1<br>4 Digit | # or 24V DC or 48V DC | 1,230 |
| **Non- Programmable AC Ammeter** | | | | | |
| DA14 | RISH ACI | 72 x 144 x 94 mm | Input : 1 / 5A (To be specified while ordering only)<br>Display : 26 mm LED Display<br>Single Phase Network<br>Accuracy Class : 1<br>4 1/2 Digit | 110 / 230V AC | 4,265 |
| | | | | 24 / 110 / 220V DC | 5,395 |
| **Non- Programmable AC Voltmeter** | | | | | |
| DA14 | RISH ACV | 72 x 144 x 94 mm | Input : 110 / 240 / 500V<br>(To be specified while ordering only)<br>Display : 26 mm LED Display<br>Single Phase Network<br>Accuracy Class : 1<br>4 1/2 Digit | 110 / 230V AC | 4,265 |
| | | | | 24 / 110 / 220V DC | 5,395 |
| Optional Accessories | | | Accuracy Class 0.5 for RISH EINE NX | | 100 |
| | | | Accuracy Class 0.5 for RISH EINE & RISH ACI / ACV 72x144 | | 210 |
| | | | RS 485 + Relay Output (Add the mentioned price to basic RISH EINE NX - 3ph meter) | | 1,155 |
| | | | 400Hz for RISH ACI/ACV 72 x 144 only | | 200 |
| | | | Side mounting clamp (Applicable for 96 x 96mm size, including EINE +) | | 20 |
| | | | IP54 Kit (48 x 96 & 96 x 96) | | |
| | | | SPAR-SD00-0017 - 144 ADAPTER PLATE FOR 96 | | 90 |
| | | | SPAR-SD00-0093 - 96 ADAPTER PLATE FOR 48 | | 75 |

Note -
*RISH Eine NX : MOQ - 25Nos applicable for any combination and it is mandatory for any order received from channel partners.
# Available on request, from May'25

# Digital Panel Meters

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| KMAT | Model | Size ( H x W x D) | Description | Auxiliary Supply | LP (INR) |
|---|---|---|---|---|---|
| **Programmable DC Ammeter** | | | | | |
| EI99 | RISH EINE + | 96 x 96 x 35 mm<br>48 x 96 x 68 mm | Input : -10...0...+10mA / -20...0...+20mA / 4...20mA / -1...0...+1A / -5...0...+5A<br>Accuracy Class : 0.5<br>4 Digit<br>(Input range to be specified while ordering only) | 40...300VAC/DC or 20...40VAC / 20...60VDC | 1,395 |
| **Non - Programmable DC Ammeter** | | | | | |
| DD14 | RISH ADC B | 48 x 96 x 138 mm | Input : 0 - 20 & 4 - 20mA<br>Display : 14 mm LED Display<br>Accuracy Class : 0.1<br>4 1/2 Digit | 110 / 230V AC | 2,355 |
| | | | | 24 / 110 V DC / 220V DC | 3,075 |
| | | 96 x 96 x 55 mm | Input : 0 - 20 & 4 - 20mA<br>Display : 14 mm LED Display<br>Accuracy Class : 0.1<br>4 1/2 Digit | 110 / 230V AC | 2,495 |
| | | | | 24 / 110 V DC / 220V DC | 3,180 |
| | | 72 x 144 x 94 mm | Input : 0 - 20 & 4 - 20mA<br>Display : 26 mm LED Display Accuracy Class : 0.1<br>4 1/2 Digit | 110 / 230V AC | 4,680 |
| | | | | 24 / 110 V DC / 220V DC | 5,495 |
| **Programmable DC Voltmeter** | | | | | |
| EI99 | RISH EINE + | 96 x 96 x 35 mm<br>48 x 96 x 68 mm | Input : -75...0...+75mV / -150...0...+150mV / -5...0...+5V / -10...0...+10V / 0...500V / 0....1000V<br>Accuracy Class : 0.5<br>4 Digit<br>(Input range to be specified while ordering only) | 40...300VAC/DC or 20...40VAC / 20...60VDC | 1,395 |
| **Non - Programmable DC Voltmeters** | | | | | |
| DD14 | RISH VDC C | 48 x 96 x 138 mm | Input : 0 - 60 / 75 / 150 / 200mV<br>Display : 14 mm LED Display<br>Accuracy Class : 0.1<br>4 1/2 Digit | 110 / 230V AC | 2,425 |
| | | | | 24 / 110 V DC / 220V DC | 3,160 |
| | RISH VDC F | | Input : 0 - 2 / 20 / 200 / 500 / 1000V<br>Display : 14 mm LED Display<br>Accuracy Class : 0.1<br>4 1/2 Digit | 110 / 230V AC | 2,535 |
| | | | | 24 / 110 V DC / 220V DC | 3,310 |
| | RISH VDC C | 96 x 96 x 55 mm | Input : 0 - 60 / 75 / 150 / 200mV<br>Display : 14 mm LED Display<br>Accuracy Class : 0.1<br>4 1/2 Digit | 110 / 230V AC | 2,535 |
| | | | | 24 / 110 V DC / 220V DC | 3,280 |
| | RISH VDC F | | Input : 0 - 2 / 20 / 200 / 500 / 1000V<br>Display : 14 mm LED Display<br>Accuracy Class : 0.1<br>4 1/2 Digit | 110 / 230V AC | 2,535 |
| | | | | 24 / 110 V DC / 220V DC | 3,280 |
| | RISH VDC C | 72 x 144 x 94 mm | Input : 0 - 60 / 75 / 150 / 200mV<br>Display : 26 mm LED Display<br>Accuracy Class : 0.1<br>4 1/2 Digit | 110 / 230V AC | 4,635 |
| | | | | 24 / 110 V DC / 220V DC | 5,435 |
| | RISH VDC F | | Input : 0 - 2 / 20 / 200 / 500 / 1000V<br>Display : 26 mm LED Display<br>Accuracy Class : 0.1<br>4 1/2 Digit | 110 / 230V AC | 4,635 |
| | | | | 24 / 110 V DC / 220V DC | 5,435 |

**$ For productwise approbations, please contact local sales office**

# Digital Panel Meters

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| KMAT | Model | Size ( H x W x D) | Description | Auxiliary Supply | LP (INR) |
|---|---|---|---|---|---|
| **Power DPM** | | | | | |
| PP44 | Power DPM | 96 x 96 x 80 mm | Input : 63.5 / 133 / 239.6 / 254V L-N<br>110 / 230 / 415 / 440V L-L & 1 or 5A<br>Display : 11 mm or 20 mm LED Display<br>Single & 3Ph 3W/4W Network<br>Accuracy Class : 1) KW / KVA - ±0.5% of range<br>2) KVAr - ±1% of range<br>Power Range : Max 694.4 MVA for 3 Phase and 333 MVA for 1Phase according to CT/PT Ratio<br>4 Digit | 12 - 48VDC<br>100 - 250 VAC/DC | 4,475 |
| | | 72 x 144 x 94 mm | Input : 63.5 / 133 / 239.6 / 254V L-N<br>110 / 230 / 415 / 440V L-L & 1 or 5A<br>Display : 26 mm LED Display<br>Single & 3Ph 3W/4W Network<br>Accuracy Class : 1) KW / KVA - ±0.5% of range<br>2) KVAr - ±1% of range<br>Max 694.4 MVA for 3 Phase and 333 MVA for 1Phase According to CT/PT Ratio<br>4 Digit | 45…300VAC/DC or<br>20...40VAC /<br>20...60VDC | 6,030 |
| **Power Factor DPM** | | | | | |
| PF44 | PF DPM | 96 x 96 x 80 mm | Input : 63.5 / 133 / 239.6 / 254V L-N<br>110 / 230 / 415 / 440V L-L & 1 or 5A<br>Display : 11 mm or 20 mm LED Display<br>Single & 3Ph 3W/4W Network<br>Accuracy Class : ±2°<br>4 Digit | 12 - 48VDC<br>100 - 250 VAC/DC | 4,675 |
| | | 72 x 144 x 94 mm | Input : 63.5 / 133 / 239.6 / 254V L-N<br>110 / 230 / 415 / 440V L-L & 1 or 5A<br>Display : 26 mm LED Display<br>Single & 3Ph 3W/4W Network<br>Accuracy Class : ±2°<br>4 Digit | 45…300VAC/DC or<br>20...40VAC /<br>20...60VDC | 6,200 |
| **Frequency DPM** | | | | | |
| DH10 | RISH DPM Hz | 48 x 96 x 68 mm | Input : 50…500V<br>Range: 10...500Hz Accuracy : ± 0.5Hz ± 1 Digit<br>4 Digit | 40…300VAC/DC or<br>20...40VAC /<br>20...60VDC | 1,525 |
| | | 96 x 96 x 55 mm | | | |
| | | 72 x 144 x 94 mm | | | 3,945 |

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# Multi-Function Meters

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| KMAT | Model | Description | Auxiliary Supply | LP (INR) |
|---|---|---|---|---|
| **LED Meters** | | | | |
| **Basic Range** | | | | |
| AV00 | RISH CD30 | Input : 57.7...300 V L-N 30A or 60A<br>2 Line LED Display 4Digit<br>Single Phase Network<br>Accuracy Class : 0.5<br>Parameters : VAF + THD+ RH + OH + NI + MM + RPM | 60 - 280V AC/DC or<br>20 - 60 V AC/DC | 1,425 |
| | RISH CD60 | | | 1,470 |
| | RISH CD30 - with RS485 | | | 2,310 |
| | RISH CD60 - with RS 485 | | | 2,355 |
| | RISH CR12 | Input : 100...500 V L-L 100mA<br>2 Line LED Display 4Digit<br>Single Ph & 3Ph 3W/4W Network<br>Accuracy Class : 0.5<br>Parameters : VAF + THD+ RH + OH + NI + MM + RPM | | 1,425 |
| | RISH CR12 - with RS485 + 1 Relay | | | 2,465 |
| VF10 | RISH OPTIMA VAF | Input : 100...500 V L-L 1 / 5A<br>3 Line LED Display 3Digit<br>Single Ph & 3Ph 3W/4W Network<br>Accuracy Class : 1<br>Parameters : VAF + RH + OH + NI + MM + RPM | 40 - 300V AC/DC or<br>20-40 V AC /<br>20-60 V DC | 1,730 |
| DE10<br>NEW! | RISH DELTA VAF NX Basic | Input : 100...500 V L-L 1 / 5A<br>3 Line LED Display 4 Digit<br>Single Ph & 3Ph 3W/4W Network<br>Accuracy Class : 0.5<br>Parameters : VAF + RH + OH + NI + MM + RPM + PF | 60 - 300V AC/DC or<br>20 - 60 V AC/DC | 1,875 |
| | RISH DELTA VAF NX Basic + RS485 | | | 2,600 |
| | RISH DELTA VAF NX Basic + 1 Relay | | | 2,395 |
| | RISH DELTA VAF NX asic + RS485 + 1Relay | | | 2,915 |
| DE20<br>NEW! | RISH DELTA POWER NX Basic | Input : 100...500 V L-L 1 / 5A<br>3 Line LED Display<br>Single Ph & 3Ph 3W/4W Network<br>Accuracy Class : 1<br>Parameters : VAF + kW + kVAr + kVA + PF + PA + RH + OH + NI + MM + RPM+ DM + MD + NC | 60 - 300V AC/DC or<br>20 - 60 V AC/DC | 2,445 |
| | RISH DELTA POWER NX Basic + RS485 | | | 3,175 |
| | RISH DELTA POWER NX Basic + 1 Relay | | | 2,965 |
| | RISH DELTA POWER NX Basic + RS485 + 1Relay | | | 3,485 |
| DE30<br>NEW! | RISH DELTA ENERGY NX Basic | Input : 100...500 V L-L 1 / 5A<br>3 Line LED Display<br>Single Ph & 3Ph 3W/4W Network<br>Accuracy Class : 1, as per 62053-21<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + RPM + DM + MD + THD + NC | 60 - 300V AC/DC or<br>20 - 60 V AC/DC | 4,320 |
| | RISH DELTA ENERGY NX Basic + RS485 + 1Relay | | | 5,360 |
| **AC Energy Meter** | | | | |
| EM91 | EM 3490SS | Input : 100 / 230 / 415 / 440 V L-L 1 / 5A<br>Energy Meter with LED Display<br>Single Ph & 3Ph 3W/4W Network<br>Accuracy Class : 1<br>Parameters : kWh | 380V AC<br>or<br>12 - 48V DC / 100-250V AC/DC | 4,905 |
| EM92 | EM 3490DS | Input : 100 / 230 / 415 V L-L 1 / 5A<br>Dual Source Energy Meter with LED Display<br>Single Ph & 3Ph 3W/4W Network<br>Accuracy Class : 1<br>Parameters : VAF + kW + kVA + kWh + kVAh + PF + RH + OH + NI | | 6,155 |
| **DC Energy Meter** | | | | |
| EM93 | RISH EMDC -6001 | Basic Model 6001 4 Channel<br>(without USB RTC & In-built Memory for Data logging)<br>Input Voltage : 10-60 / 61-200 / 201-1000V DC<br>Accuracy Class : 1<br>Parameters : VA + kW + kWh + RH + OH + NI + DM | 60....300V AC/DC or<br>12 - 70 VDC | 8,590 |
| | RISH EMDC -6002 | Higher Model 6002 4 Channel<br>(with USB + RTC + In-built Memory for Data logging)<br>Input Voltage : 10-60 / 61-200 / 201-1000V DC<br>Accuracy Class : 1<br>Parameters : VA + kW + kWh + RH + OH + NI + DM + MD | | 12,015 |
| EM94 | RISH EMDC -6000 | Basic Model 6000 1 Channel<br>Input Voltage : 10-60 / 61-200 / 201-1000V DC<br>Shunt Input : 50-150mV<br>Accuracy Class : 0.5<br>Parameters : VA + kW + kWh + RH + OH + NI + DM | 60 - 300 V AC / DC or<br>20 – 60 VAC / DC | 4,160 |

**$ For productwise approbations, please contact local sales office**

# Multi-Function Meters

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| KMAT | Model | Description | Auxiliary Supply | LP (INR) |
|---|---|---|---|---|
| **LED Meters - Advance Range** | | | | |
| MA4A<br>MA4S - Class 0.2s | RISH MASTER 3440 | Input : On site Programmable - Voltage - 57.7 - 346 VL-N, Current - 1/5A<br>Single Phase Network<br>Accuracy Class : 1<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD | 60- 300V AC/DC or 12-60 V AC/DC<br>Aux supply will be 100-550 VAC/DC for accuracy class 0.2s or<br>For meter with Ethernet port the aux. supply will be 65...300V AC/DC | 9,625 |
| | | Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A<br>3Ph 3W/4W Network<br>Accuracy Class : 1<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD | | 10,475 |
| **LCD Meters** | | | | |
| WH0P | RISH EM 1320 | Input : On site Programmable - Voltage - 100 - 500 VL-L, Current - 1/5A<br>Single Phase 3Ph 3W/4W Network with LCD Display<br>Accuracy Class : 1<br>Parameters : kWh + kVAh | 60…300VAC/DC or 20...40VAC or 20...60VDC | 3,075 |
| | RISH EM 1330 | Input : On site Programmable - Voltage - 100 - 500 VL-L, Current - 1/5A<br>Single Phase 3Ph 3W/4W Network with LCD Display<br>Accuracy Class : 1<br>Parameters : VAF + kW + kVA + kWh + kVAh + PF + PA + RH + OH + NI + MM + NC | | 3,725 |
| | RISH EM 1340 | Input : On site Programmable - Voltage - 100 - 500 VL-L, Current - 1/5A<br>Single Phase 3Ph 3W/4W Network with LCD Display<br>Accuracy Class : 1<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD | | 5,605 |
| | RISH EM 2340DS | Input : On site Programmable - Voltage - 100 - 500 VL-L, Current - 1/5A<br>Dual Source Energy Meter with LCD Display Single Phase 3Ph 3W/4W Network Accuracy Class : 1<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD | | 4,455 |
| MA3L | RISH LM 1340 | Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A<br>Big LCD Display, 3 Line 5 Digits<br>3Ph 3W/4W Network<br>Accuracy Class : 0.5S<br>Energy Parameters - Individual phasewise and system<br>Energy Measurement as per IEC 62053-22 / 23 and IEC 61557-12<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + DPF + PA + RH + OH + NI + MM + NC + THD + RPM + IH + TAR + UB | 100-550V AC/DC or 12-60V AC/DC | 9,010 |
| MA4L | RISH LM 1360 | Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A<br>Big LCD Display<br>3Ph 3W/4W Network<br>Accuracy Class : 0.5S<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + RPM + IH | 100-550V AC/DC or 12-60V AC/DC | 10,055 |
| | | Input : On site Programmable - Voltage - 100 - 600 VL-L,<br>Current - 100mA over RJ12<br>Big LCD Display<br>3Ph 3W/4W Network<br>Accuracy Class : 1<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + RPM + IH | | 8,870 |

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# Multi-Function Meters

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| KMAT | Model | Description | Auxiliary Supply | LP (INR) |
|---|---|---|---|---|
| MA8L | RISH LM 1380 | Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A<br>Big LCD Display<br>3Ph 3W/4W Network<br>Accuracy Class : 0.2S, RS 485 Modbus communication<br>Energy Parameters - Individual phasewise and system<br>Energy Measurement as per IEC 62053-22 / 23 and IEC 61557-12<br>%THD and individual Harmonics Measurement ( upto 63rd Harmonic)<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + DPF + PA + RH + OH + NI + MM + NC + THD + RPM + IH + TAR + UB | 100-550V AC/DC or 12-60V AC/DC | On Request |
| | | Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A<br>Big LCD Display<br>3Ph 3W/4W Network<br>Accuracy Class : 0.2S, Ethernet Interface (MODBUS TCP/IP Protocol)<br>Energy Parameters - Individual phasewise and system<br>Energy Measurement as per IEC 62053-22 / 23 and IEC 61557-12<br>%THD and individual Harmonics Measurement ( upto 63rd Harmonic)<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + DPF + PA + RH + OH + NI + MM + NC + THD + RPM + IH + TAR + UB | | On Request |
| | | Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A<br>Big LCD Display<br>3Ph 3W/4W Network<br>Accuracy Class : 0.2S,<br>RS 485 + Ethernet Interface (MODBUS TCP/IP Protocol) + 4Digital Inputs + 2 Digital Outputs<br>Energy Parameters - Individual phasewise and system<br>Energy Measurement as per IEC 62053-22 / 23 and IEC 61557-12<br>%THD and individual Harmonics Measurement ( upto 63rd Harmonic)<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + DPF + PA + RH + OH + NI + MM + NC + THD + RPM + IH + TAR+ UB | | On Request |
| | | Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A<br>Big LCD Display<br>3Ph 3W/4W Network<br>Accuracy Class : 0.2S,<br>Ethernet Interface (BACnet Protocol) NEW!<br>Energy Parameters - Individual phasewise and system<br>Energy Measurement as per IEC 62053-22 / 23 and IEC 61557-12<br>%THD and individual Harmonics Measurement ( upto 63rd Harmonic)<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + DPF + PA + RH + OH + NI + MM + NC + THD + RPM + IH + TAR+ UB | | On Request |
| MLM1 | MultiLoad Monitor<br>RISH ML 1400<br>(Class 1) | Input : On site Programmable - Voltage - 100 - 600 VL-L,<br>Current - 100mA over RJ12<br>Big LCD Display<br>1Ph 2W, 3Ph 3W/4W Network<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + RPM + IH + RCM + TAR + 3HL | 100-550V AC/DC | 17,490 |
| | MultiLoad Monitor<br>RISH ML 1410<br>(Class 0.5s) | RS485 (Modbus RTU) - 2 Relay | | 18,955 |
| | Optional Modules | RS485 (Modbus RTU) - 2 Relay - USB | | 1,450 |
| | | RS485 (Modbus RTU) - 4 Relay (USB not possible) | | 1,500 |
| | | Ethernet (Modbus TCP/IP) (USB & Relay not possible) | | 2,555 |
| | | Data-logging | | 2,080 |
| | | **QuickFix Module -** RJ00 - 3x single phase CTs with 100mA to 100mA (via RJ12) | | 500 |
| | | **QuickFix Module -** RJ01 - 3x CTs with 1A to 100mA (via RJ12) | | 990 |
| | | **QuickFix Module -** RJ05 - 3x CTs with 5A to 100mA (via RJ12) | | 1,050 |
| | | **QuickFix Module -** RC30 - 3x CBCT to RJ12 | | 600 |
| | | SPAR-SA00-2279 : RJ12 Split Cable | | 290 |

**$ For productwise approbations, please contact local sales office**

# Multi-Function Meters

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| KMAT | Model | Description | Auxiliary Supply | LP (INR) |
|---|---|---|---|---|
| **Touch Screen Meters** | | | | |
| MA4I<br>MA4S - Class 0.2s | RISH MASTER 3440 i | Input : On site Programmable - Voltage - 57.7 - 346 VL-N, Current - 1/5A<br>Single Phase Network<br>Accuracy Class : 1<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD | 60- 300V AC/DC or 12-60 V AC/DC<br>Aux supply will be 100-550 VAC/DC for accuracy class 0.2s or<br>For meter with Ethernet port the aux. supply will be 65...300V AC/DC | 12,785 |
| | | Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A<br>3Ph 3W/4W Network<br>Accuracy Class : 1<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD | | 13,450 |
| MA4S | RISH MASTER 3440 iDL | Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A<br>3Ph 3W/4W Network With Data logging<br>Accuracy Class : 0.2s<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + IH + RTC<br>Output - RS485 - 2 Pulse Output | 100-550V AC/DC or 12-60V AC/DC | 20,720 |
| | | Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A<br>3Ph 3W/4W Network With Data logging<br>Accuracy Class : 0.2s<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + IH + RTC<br>Output - RS485 - 1 Pulse Output - 2 Analog Output | | 22,965 |
| | | Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A<br>3Ph 3W/4W Network With Data logging<br>Accuracy Class : 0.2s<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + IH + RTC<br>Output - Ethernet (MODBUS TCP/IP) | | 26,500 |
| **Power Quality Monitor (Touch Screen)** | | | | |
| PA00 | RISH PQM | Input : On site Programmable - Voltage - 100 - 500 VL-L, Current - 1/5A<br>3Ph 3W/4W Network Accuracy Class : 0.5s<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + IH + RTC + SG + SW + OC | 60-300V AC/DC | 19,290 |
| **Advance Dual Source Energy Meter (Touch Screen)** | | | | |
| WH10 | RISH 3490DS i | Input : On site Programmable - Voltage - 100 - 500 VL-L, Current - 1/5A<br>3Ph 3W/4W Network or 1 Phase<br>Accuracy Class : 0.5s<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + IH + RTC + GE | 60-300V AC/DC | 20,340 |
| **Smart Demand Controller (Touch Screen)** | | | | |
| DM82 | RISH DMC i | Input : On site Programmable - Voltage - 100 - 500 VL-L, Current - 1/5A<br>3Ph 3W/4W Network or 1 Phase<br>Accuracy Class : 0.5s , 4 Relay output<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + IH + RTC | 60-300V AC/DC | 29,140 |
| **DIN Rail Meters (LCD Screen)** | | | | |
| MD00 | DIn Rail - RISH MD 1340 | Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A<br>Big LCD Display, 3 Line 4 Digits<br>3Ph 3W/4W Network<br>Accuracy Class : 0.5S<br>Communication - RS 485 Modbus communication<br>Energy Parameters - Individual phasewise and system<br>Energy Measurement as per IEC 62053-22 / 23 and IEC 61557-12<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + DPF + PA + RH + OH + NI + MM + NC + THD + RPM + IH + TAR + UB | 100-550V AC/DC or 20-60 AC/DC | 7,420 |
| | | Input : On site Programmable - Voltage - 100 - 600 VL-L,<br>Current - 100mA over RJ12<br>Big LCD Display, 3 Line 4 Digits<br>3Ph 3W/4W Network<br>Accuracy Class : 0.5S<br>Communication - RS 485 Modbus communication<br>Energy Parameters - Individual phasewise and system<br>Energy Measurement as per IEC 62053-22 / 23 and IEC 61557-12<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + DPF + PA + RH + OH + NI + MM + NC + THD + RPM + IH + TAR + UB | 100-550V AC/DC | 6,680 |

**$ For productwise approbations, please contact local sales office**

# Multi-Function Meters

| KMAT | Model | Description | Auxiliary Supply | LP (INR) |
|---|---|---|---|---|
| ED11 | RISH ED1101 2TS | 1U 1Ph 2W, 45A - 1 SO + 1 TI | | 2,150 |
| | RISH ED1111 Mod | 1U 1Ph 2W, 45A - RS 485 + 1 SO | | 2,350 |
| ED21 | RISH ED2101 2TS | 2U 1Ph 2W, 100A - 2 SO + 1 TI | NEW! | 2,900 |
| | RISH ED2111 Mod | 2U 1Ph 2W, 100A - RS 485 + 2 SO + 1 TI | | 3,200 |
| ED43 | RISH ED4301 4TS | 4U 3Ph 3W/4W, 100A - 2 SO + 2 TI | | 6,700 |
| | RISH ED4311 Mod | 4U 3Ph 3W/4W, 100A - RS 485 + 2 SO + 2 TI | | 7,000 |

| Optional Accessories for Multi-function Meters* | | | |
|---|---|---|---|
| 1 | Accuracy class 0.5 | RM 3440, RM 3440i, EM 3490SS, EM 3490DS, Delta Energy NX | 1,450 |
| 2 | Accuracy class 0.2 | RM 3440, RM 3440i | 2,405 |
| 3 | Accuracy class 0.2s | RM 3440, RM 3440i, LM 1340/1360 (Aux supply will be 100-550 VAC/DC), RISH MD1340 | 2,625 |
| 4 | RS485 (Modbus ) | EM 1320, EM 1330, EM 1340, EM 3490SS, EM 3490DS, EM 2340DS, , DMCi, EM 3490DSi, RISH EMDC 6001/2, RISH LM 1340 | 1,155 |
| 5 | RS485 + 2 Relay / Pulse | RM 3440, RM 3440i, LM 1360, PQM | 1,155 |
| 6 | RS485 + 2 Relay / Pulse | RISH EM DC 6000 | 1,575 |
| 7 | RS485 + 1 Relay / Pulse + 2 Analog | RM 3440, RM 3440i | 3,005 |
| 8 | RS 485 MODBUS RTU + 2 Digital Input + 2 Digital Output | RISH LM 1340 (Available with Accuracy Class 0.2S only) | 2,430 |
| 9 | 4 Digital Input + 2 Digital Output | RISH LM 1380 | 2,000 |
| 10 | 1 Digital Input + 1 SO | RISH MD1340 | 600 |
| 11 | 2 Digital Input + 2 Relay output | RISH MD1340 | 1,500 |
| 12 | 1 Relay o/p (Pulse /Limit) | EM1320, EM 1330, EM 1340, EM 2340DS, EM 3490SS, EM 3490DS, Optima VAF | 1,065 |
| 13 | 2 Pulse /Relay | EM 1330, EM 1340, EM 2340DS, EMDC 6001/2, EM 3490DSi | 1,450 |
| 14 | Ethernet Interface (MODBUS TCP/IP Protocol) | RM 3440, RM 3440i, PQM, LM 1360, LM 1340 | 3,900 |
| 15 | Ethernet MODBUS TCP/IP + 2 Digital Input + 2 Digital Output | RISH LM 1340 (Available with Accuracy Class 0.2S only) | 4,985 |
| 16 | Terminal Sealing | 3490SS | 105 |
| 17 | Converter 1 | RS 485 to RS 232 Converter (Self Powered) | 2,405 |
| 18 | Converter 2 | RS 485 to USB Converter (Self Powered) | 5,775 |
| 19 | 4 Relay | RISH EM DC 6001/2 | 2,405 |
| 20 | Data logging + Ethernet + RTC | LM 1360 | 4,635 |
| 21 | Data logging + USB + RTC + RS 485 + 2 Relay | LM 1360 / EMDC 6000 | 3,530 |
| 22 | BACNet | LM 1360 | On Request |
| 23 | IP 65 Kit | For 96x96 size models | 130 |
| 24 | Side mounting clamp | OPTIMA VAF / DELTA Series / LM 13xx Series / EM 13xx Series / EM 2340 | 20 |
| 25 | SPAR-SD00-0660 | DIN RAIL MOUNTING KIT FOR MFM - Applicable for 96 x 96 Products | 240 |

*Before selecting any single or multiple optional accessories / outputs please refer to the respective datasheets to check feasibility

List of abbreviations

VAF - Voltage Current & Frequency
kW - Active Power
kVAr - Reactive Power
kVA - Apparent Power
kWh - Active Energy
kVArh - Reactive energy
kVAh - Apparent Energy
PF - Power Factor
TAR - Tariff
UB - Unbalance (Voltage and Current - Over Modbus)
PA - Phase Angle
RH - Run Hour
OH - On Hour
NI - No. of interruptions
MM - Min / Max Parameters
DM - Demand
MD - Max Demand
NC - Neutral Current
3HL - 3 Phase Health Monitoring
THD - % Total Harmonics distortion
IH - Individual Harmonics
RTC - Real time clock
SG - Sag
SW - Swell
OC - Over Current
GE - Generator Event
RCM - Residual Current Monitoring
DPF - Displacement Power Factor

# Electrical Transducers

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| KMAT | Model | Description | Auxiliary Supply | LP (INR) |
|---|---|---|---|---|
| **Programmable RISH CON Series** | | | | |
| CM41 | RISH CON I | Type : Current (TRMS)<br>Input : 1…5A<br>Output : 0…20mA / 4…20mA OR 0…10V<br>Accuracy Class : 0.2 | 60...300VAC/DC or 24...60VAC/DC | 3,975 |
| | RISH CON V | Type : Voltage (TRMS)<br>Input : 57…500V<br>Output : 0…20mA / 4…20mA OR 0…10V<br>Accuracy Class : 0.2 | | |
| CF41 | RISH CON Hz | Type : Frequency (TRMS)<br>Input : 45…55 / 48…52 / 55...65 / 45...65 Hz (57…500V)<br>Output : 0…20mA / 4…20mA OR 0…10V<br>Accuracy Class : 0.2 | | 4,420 |
| CP41 | RISH CON P | Type : Power / Power Factor (TRMS)<br>Input : 100…500V LL 1…5A<br>Output : 0…20mA / 4…20mA OR 0…10V / -20mA....0....+20mA / - 10V....0....+10V<br>Accuracy Class : 0.2, Class 0.5 for PF and Phase angle | | 8,515 |
| CM44 | RISH CON M+ | Type : Multi-transducer (TRMS)<br>Input : 100 to 600V L-L, 1 or 5A<br>Output : Analog Outputs 0…20mA OR 0…10V & 0 / 2 Relay (M-22 M-40)<br>Communication Port : USB<br>Accuracy Class : 0.2 for Voltage & Current<br>Class : 0.2 for Frequency<br>Class : 0.5 for Power & Power Factor<br>Active Energy Class 0.5s as per 62053-22 | 85...285V AC / DC* | 15,550 |
| | NEW! | Type : Multi-transducer (TRMS)<br>Input : 100 to 600V L-L, 1 or 5A<br>Output : Analog Outputs 0…20mA OR 0…10V & 2 Relay (M-42)<br>Communication Port : USB<br>Accuracy Class : 0.2 for Voltage & Current<br>Class : 0.2 for Frequency<br>Class : 0.5 for Power & Power Factor<br>Active Energy Class 0.5s as per 62053-22 | | 16,175 |
| **Programmable RISH DUCER MXX Series** | | | | |
| PM11 | RISH DUCER M20 | Type : Multi-transducer<br>Input : 100 to 693V L-L 1 to 6A (Configurable)<br>Output : 2 Analog Outputs 0…20mA OR 0…10V<br>Communication Port : RS 232<br>Accuracy Class : 0.2 for Voltage & Current<br>Class : 0.15 for Frequency<br>Class : 0.25 for Power & Power Factor | 24...60 or 85...230VAC/DC | 20,485 |
| | RISH DUCER M30 | Type : Multi-transducer<br>Input : 100 to 693V L-L 1 to 6A (Configurable)<br>Output : 3 Analog Outputs 0…20mA OR 0…10V<br>Communication Port : RS232<br>Accuracy Class : 0.2 for Voltage & Current<br>Class : 0.15 for Frequency<br>Class : 0.25 for Power & Power Factor | | 26,660 |
| | RISH DUCER M24 | Type : Multi-transducer<br>Input : 100 to 693V L-L 1 to 6A (Configurable)<br>Output : 2 Analog Outputs 0…20mA OR 0…10V 4 Digital Outputs<br>Communication Port : RS 232<br>Accuracy Class : 0.2 for Voltage & Current<br>Class : 0.15 for Frequency<br>Class : 0.25 for Power & Power Factor | | 26,180 |
| | RISH DUCER M42 | Type : Multi-transducer<br>Input : 100 to 693V L-L 1 to 6A (Configurable)<br>Output : 4 Analog Outputs 0…20mA OR 0…10V 2 Digital Outputs<br>Communication Port : RS 232<br>Accuracy Class : 0.2 for Voltage & Current<br>Class : 0.15 for Frequency<br>Class : 0.25 for Power & Power Factor | | 27,520 |
| | RISH DUCER M40 | Type : Multi-transducer<br>Input : 100 to 693V L-L 1 to 6A (Configurable)<br>Output : 4 Analog Outputs 0…20mA OR 0…10V<br>Communication Port : RS 232 & MODBUS RS 485<br>Accuracy Class : 0.2 for Voltage & Current<br>Class : 0.15 for Frequency<br>Class : 0.25 for Power & Power Factor | | 31,995 |

* Lower aux version - Available on request, from July'25

# Electrical Transducers

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| KMAT | Model | Description | Auxiliary Supply | LP (INR) |
|---|---|---|---|---|
| **Non - Programmable RISH CON Series** | | | | |
| CM22 | RISH CON CA | Type : Current AVG (Single input Single output)<br>Input : 0…1 / 0…5A<br>Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0…5V / 0...10V<br>Accuracy Class : 0.2 | 40...300VAC/DC or 24...60VAC/DC | 2,730 |
| CM21 | | Type : Current TRMS (Single input Single output)<br>Input : 0…1 / 0…5A<br>Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0…5V / 0...10V<br>Accuracy Class : 0.2 | | 3,640 |
| CM22 | RISH CON CV | Type : Voltage AVG (Single input Single output)<br>Input : 0….63.5V to 0...500V<br>Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0…5V / 0...10V<br>Accuracy Class : 0.2 | | 2,730 |
| CM21 | | Type : Voltage TRMS (Single input Single output)<br>Input : 0….63.5V to 0...500V<br>Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0…5V / 0...10V<br>Accuracy Class : 0.2 | | 3,640 |
| CM23 | RISH CON CA | Type : Current - AVG (Single input Dual output)<br>Input Range : 0…1 / 0…5A<br>Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0…5V / 0...10V<br>Accuracy Class : 0.2 | 60…300 VAC/DC or 20...40VAC / 20...60VDC | 3,995 |
| | RISH CON CV | Type : Voltage - AVG (Single input Dual output)<br>Input Range : 0-63.5 / 0-100 / 0-110 / 0-150 / 0-220 / 0-230 / 0-240 / 0-250 / 0-300 / 0-330 / 0-415 / 0-450 / 0-500V AC<br>Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0…5V / 0...10V<br>Accuracy Class : 0.2 | | |
| CA11 | RISH CON I11 NEW! | Type : Current AVG (Single input Single output)<br>Input : 0…1 / 0…5A<br>Output : 0...20mA / 0..10mA / 0...5mA / 4...20mA / 0...10V<br>Accuracy Class : 0.5 | Self Powered<br>12-30VDC for 4..20mA output | 2,445 |

| Optional Accessories for Electrical Transducers | | |
|---|---|---|
| 400Hz | RISH CON P | 560 |
| RS 485 | RISH CON V, RISH CON I, RISH CON Hz, RISH CON P, RISH CON M+ | 1,155 |
| Display Module | RISH CON V, RISH CON I, RISH CON Hz, RISH CON P | 780 |
| Dual Output | | 700 |
| Non Standard Input / Output | RISH CON CA / CV | 970 |
| SPAR-SD00-0229 | USB Cable for Configuration - RISH CON V, RISH CON I, RISH CON Hz, RISH CON P | 1,260 |
| SPAR-SD00-0870 | USB Cable for Configuration - RISH CON M+ | 260 |
| SPAR-SD00-0992 | RS232 to USB cable - Rish Ducer Mxx | 2,150 |

NEW!

**$ For productwise approbations, please contact local sales office**

# Electrical Transducers

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| KMAT | Model | Description | Auxiliary Supply | LP (INR) |
|---|---|---|---|---|
| **CT with Inbuilt Transducers** | | | | |
| CCT1 | RISH CTDUCER 70 x 30mm | Type : Current TRMS (Single input Single output) Input : 0 - 50A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | 24V DC ± 15% | 3,895 |
| | | Type : Current AVG (Single input Single output) Input : 0 - 50A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 2,355 |
| | | Type : Current TRMS (Single input Single output) Input : 0 - 100A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 3,955 |
| | | Type : Current AVG (Single input Single output) Input : 0 - 100A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 2,415 |
| | | Type : Current TRMS (Single input Single output) Input : 0 - 150A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 4,010 |
| | | Type : Current AVG (Single input Single output) Input : 0 - 150A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 2,485 |
| | | Type : Current TRMS (Single input Single output) Input : 0 - 200A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 4,075 |
| | | Type : Current AVG (Single input Single output) Input : 0 - 200A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 2,535 |
| | | Type : Current TRMS (Single input Single output) Input : 0 - 250A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 4,130 |
| | | Type : Current AVG (Single input Single output) Input : 0 - 250A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 2,595 |
| | | Type : Current TRMS (Single input Single output) Input : 0 - 300A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 4,190 |
| | | Type : Current AVG (Single input Single output) Input : 0 - 300A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 2,650 |
| | RISH CTDUCER 90 x 40 mm | Type : Current TRMS (Single input Single output) Input : 0 - 50A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | 24V DC ± 15% | 3,995 |
| | | Type : Current AVG (Single input Single output) Input : 0 - 50A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 2,455 |
| | | Type : Current TRMS (Single input Single output) Input : 0 - 100A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 4,055 |
| | | Type : Current AVG (Single input Single output) Input : 0 - 100A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 2,515 |
| | | Type : Current TRMS (Single input Single output) Input : 0 - 150A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 4,110 |
| | | Type : Current AVG (Single input Single output) Input : 0 - 150A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 2,585 |
| | | Type : Current TRMS (Single input Single output) Input : 0 - 200A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 4,170 |
| | | Type : Current AVG (Single input Single output) Input : 0 - 200A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 2,640 |
| | | Type : Current TRMS (Single input Single output) Input : 0 - 250A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 4,220 |
| | | Type : Current AVG (Single input Single output) Input : 0 - 250A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 2,700 |
| | | Type : Current TRMS (Single input Single output) Input : 0 - 300A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 4,285 |
| | | Type : Current AVG (Single input Single output) Input : 0 - 300A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 2,760 |
| | | Type : Current TRMS (Single input Single output) Input : 0 - 400A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 4,350 |
| | | Type : Current AVG (Single input Single output) Input : 0 - 400A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 2,820 |
| | | Type : Current TRMS (Single input Single output) Input : 0 - 500A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 4,400 |
| | | Type : Current AVG (Single input Single output) Input : 0 - 500A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 2,880 |
| | | Type : Current TRMS (Single input Single output) Input : 0 - 600A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 4,460 |
| | | Type : Current AVG (Single input Single output) Input : 0 - 600A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 2,935 |
| | | Type : Current TRMS (Single input Single output) Input : 0 - 750A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 4,555 |
| | | Type : Current AVG (Single input Single output) Input : 0 - 750A Output : 0...20mA / 4...20mA Accuracy Class : 0.5% | | 3,025 |

| Optional Accessories | | |
|---|---|---|
| Power Supply | 230 VAC -50 / +15%, 50/60Hz (90x40 Size only) | 2,115 |
| Accessory | Din Rail Mounting Kit | 75 |

# Isolators

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| KMAT | Model | Description | Auxiliary Supply | LP (INR) |
|---|---|---|---|---|
| **Process Transducers** | | | | |
| PI01 | RISH PI 101 | Type : Programmable Single output DC Isolator<br>1 Input-1 Output<br>Input Range -<br>DC Current :0…20 / 0…10 / 4…20 / 0…24 mA DC<br>DC Voltage : 0…12 / 0…10 / 0…5 / 1…5 VDC,<br>Output -<br>DC Current : 0..10mA / 0...20mA / 2..10mA / 4...20mA<br>DC Voltage : 0...5 / 1…5 / 0…10 / 2…10V<br>Accuracy Class : 0.2 | 60…300 VAC/DC or 20...40VAC / 20...60VDC | 2,290 |
| PI02 | RISH PI 102 | Type : Programmable Dual output DC Isolator<br>1 Input-2 Output<br>Input Range -<br>DC Current :0…20 / 0…10 / 4…20 / 0…24 mA DC<br>DC Voltage : 0…12 / 0…10 / 0…5 / 1…5 VDC,<br>Output -<br>DC Current : 0..10mA / 0...20mA / 2..10mA / 4...20mA<br>DC Voltage : 0...5 / 1…5 / 0…10 / 2…10V<br>Accuracy Class : 0.2 | | 3,435 |
| PI02 | RISH PI 102 with Loop powered output | Type : Programmable Dual output DC Isolator<br>1 Input-2 Output<br>Input Range -<br>DC Current :0…20 / 0…10 / 4…20 / 0…24 mA DC<br>DC Voltage : 0…12 / 0…10 / 0…5 / 1…5 VDC,<br>Output -<br>DC Current : 0..10mA / 0...20mA / 2..10mA / 4...20mA<br>DC Voltage : 0...5 / 1…5 / 0…10 / 2…10V<br>Accuracy Class : 0.2, Transmitter Power Supply 24VDC(+/- 15%) | 60…300 VAC/DC or 20...40VAC / 20...60VDC | 4,005 |
| SI01 | RISH CON SI-101 | Type : Powerful DC Signal Isolator<br>1 Input-1 Output<br>Input -<br>DC Current : 0...20mA / 4...20mA / 1...5mA<br>DC Voltage : 0...10V / 2...10V / 1...5V<br>Output -<br>DC Current : 0...20mA / 4...20mA<br>DC Voltage : 0...10V / 2...10V<br>Accuracy Class : 0.2 | 24…60V AC/DC or 60 …300V AC/DC | 2,270 |
| SI02 | RISH CON SI-102 | Type : Powerful DC Signal Isolator<br>1 Input-2 Output<br>Input -<br>DC Current : 0...20mA / 4...20mA / 1...5mA<br>DC Voltage : 0...10V / 2...10V / 1...5V<br>Output -<br>DC Current : 0...20mA / 4...20mA<br>DC Voltage : 0...10V / 2...10V<br>Accuracy Class : 0.2 | | 3,405 |
| TV 08 | TV 808 | Type : DC Isolator 1 Input-1 Output (S17 or E8 Housing)<br>Input - 0.1mA...20mA & 4...20mA & 0.06V...40V<br>Output -<br>DC Current : 0...20mA, 4...20mA<br>DC Voltage : 0…5V, 0...10V<br>Accuracy Class : 0.2 for S17Housing, Class 0.5 for E8 Housing | 24…60V AC/DC or 85 …230V AC/DC | 2,860 |
| | TV 808 | Type : DC Isolator 1 Input-2 Output (S17 or E8 Housing)<br>Input - 0.1mA...20mA & 4...20mA & 0.06V...40V<br>Output -<br>DC Current : 0...20mA, 4...20mA<br>DC Voltage : 0…5V, 0...10V<br>Accuracy Class : 0.2 for S17Housing, Class 0.5 for E8 Housing | | 4,010 |
| | TV 808 | Type : DC Isolator 2 Input-2 Output (S17 Housing)<br>Input - 0.1mA...20mA & 4...20mA & 0.06V...40V<br>Output -<br>DC Current : 0...20mA, 4...20mA<br>DC Voltage : 0…5V, 0...10V<br>Accuracy Class : 0.2 for S17 Housing | | 4,590 |

# Isolators

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| KMAT | Model | Description | Auxiliary Supply | LP (INR) |
|---|---|---|---|---|
| **Tap Position Transducers** | | | | |
| CT25 | RISH CON TPT | Type : Tap Position<br>Input - 0-17kOhm, 0-18kOhm, 0-20kOhm, 0-25kOhm<br>Output - DC Current : 0...20mA / 4...20mA<br>DC Voltage : 0...10V / 2...10V<br>Accuracy Class : 0.2 | 24…60V AC/DC or 60 …300V AC/DC | 5,270 |
| | RISH CON TPT | Type : Tap Position with display<br>Input - 0-17kOhm, 0-18kOhm, 0-20kOhm, 0-25kOhm<br>Output - DC Current : 0...20mA / 4...20mA<br>DC Voltage : 0...10V / 2...10V<br>Accuracy Class : 0.2 | | 6,310 |
| | RISH CON TPT (96x96) | Type : Tap Position with display (96 X 96)<br>Input - 0-17kOhm, 0-18kOhm, 0-20kOhm, 0-25kOhm<br>Output - DC Current : 0...20mA / 4...20mA<br>DC Voltage : 0...10V / 2...10V<br>Accuracy Class : 0.2 | | 5,795 |
| **Universal Transmitter** | | | | |
| V604 | RISH DUCER V604 | Type : Programmable Transmitter<br>Input -<br>DC Voltage/Current / Resistance / Temp. etc.<br>Output -<br>DC Current : 0...20mA / 4...20mA<br>DC Voltage : 0…5V / 1…5V /.0...10V / 2...10V<br>Accuracy Class : 0.2 | 24…60V AC/DC or 85 …230V AC/DC | 8,880 |
| **Temperature Transmitter** | | | | |
| PT02 | PT 602 | Type : 1 Channel Temperature transmitter (1 I/P / 1 O/P)<br>Input -<br>Temperature (PT100)<br>Output -<br>DC Current : 0...20mA / 4...20mA<br>DC Voltage : 0...10V<br>Accuracy Class : 0.5 | 24…60V AC/DC or 85 …230V AC/DC | 6,495 |
| | | Type : 2 Channel Temperature transmitter (2 I/P / 2 O/P)<br>Input -<br>Temperature (PT100)<br>Output -<br>DC Current : 0...20mA / 4...20mA<br>DC Voltage : 0...10V<br>Accuracy Class : 0.5 | | 8,135 |
| **Optional Accessories for Process Transducers** | | | | |
| RS 485 | | RISH CON TPT 96 X 96 | | 1,155 |
| Non Standard Input / | | RISH DUCER TV808 and RISH CON SI 101 / SI 102 | | 780 |
| PK60-P100000000000 | | Programming RS232 & Configuration Adapter + Cable for RISH DUCER V604 | | 1,260 |
| SPAR-SD00-0781 | | Programming Cable for Configuration of RISH CON TPT (96 x 96) | | |
| SPAR-SD00-0229 | | Programming Cable for Configuration of RISH CON TPT (DIN) | | |

**$ For productwise approbations, please contact local sales office**

# Protection and Monitoring Relays

## Analog Protection Relay

| KMAT | Model | Description | Network | LP (INR) |
|---|---|---|---|---|
| **Phase Failure Relay** | | | | |
| PR10 | Rish Relay PHR | Input- 110V L-L / 240V L-L / 415V L-L / 440V L-L, 50Hz/60Hz, 1 Relay<br>Relay Configration - NE/ND | 3P3W or 3P4W | 990 |
| **Current Relay** | | | | |
| PR10 | Rish Relay AR | Input-1A to 5A, 50Hz,60Hz, 1 Relay<br>Relay Configration - NE/ND<br>Auxiliary Supply - 60 - 300V AC/DC | 1PH | 1,760 |
| | | | 3PH | 1,925 |
| Note - Aux supply 185-415 will be available on request (Rish Relay AR) | | | | |
| **Voltage Relay** | | | | |
| PR10 | Rish Relay VR | Input- 58-138VLN / 220-254VLN, 50Hz/60Hz, 1 Relay<br>Relay Configration - NE/ND | 1PH | 1,270 |
| | | Input- 10-240VLL / 381-415VLL / 415-480VLL, 50Hz/60Hz, 1 Relay<br>Relay Configration - NE/ND | 3PH | 1,440 |
| **Optional Accessories** | | | | |
| 2 Relay | | For Rish Relay AR , VR | | 170 |

Note-
NE - Normally Energized
ND - Normally Denergized

| KMAT | Model | Description | Auxiliary Supply | LP (INR) |
|---|---|---|---|---|
| **Earth Leakage Relay - Rish ELPR** | | | | |
| ELR2 | RISH ELPR | Smart Without Relay Output | 60 - 300 AC / DC or<br>20 - 60 DC / 20 - 40 AC | 1,765 |
| | | Smart With Alarm Relay Output | | 2,075 |
| | | Smart+ With 1 Relay Output | | 2,285 |

## Advance Digital Monitoring Relay

| KMAT | Model | Description | Auxiliary Supply | LP (INR) |
|---|---|---|---|---|
| TR10 | Rish Relay I | Prog. 1PH Current 1-5A 1CO | 60-300V AC/DC or<br>20-60V DC /<br>20-40V AC | 3,165 |
| | | Prog. 3PH Current 1-5A 1CO | | 3,215 |
| | Rish Relay V/Hz | Prog. 1PH & 3PH V 100-600V L-L 1CO | | 2,885 |
| | Rish Relay V | Prog. 1PH & 3PH V 100-600V L-L 1CO | | 2,345 |
| ELR1 | RISH ELR<br>(Din & 96x96mm) | ELR SINGLE CBCT 1CO | | 2,765 |
| | RISH ELR+<br>(Din & 96x96mm) | ELR+ Dual CBCT 1CO+1CO | | 3,845 |
| | RISH ELR VI(NE)<br>(Din & 96x96mm) | ELR VI(NE) CBCT+E to N V+I 1CO+1CO | | 4,200 |
| | RISH ELR VI<br>(Din & 96x96mm) | ELR VI CBCT+V+I 1CO+1CO | | 4,150 |
| **Optional Accessories** | | | | |
| 1CO+1CO / 2CO | | For Rish Relay I, Rish Relay V/Hz, Rish Relay V, Rish Relay ELR | | 60 |
| SPAR-SD00-022 : PRKAB FOR RELAY (MICRO USB TO USB CABLE) | | | | 1,260 |

## Core Balance Current Transformers

### Round CBCT

| Product Code | Model Name | Turns Ratio | Primary Current | LP (INR) |
|---|---|---|---|---|
| CB08-0101000000000 | RISH CBCT 38 | 600/1 | 30mA to 30A | 820 |
| CB09-0101000000000 | RISH CBCT 57 | 600/1 | 30mA to 30A | 1,000 |
| CB10-0101000000000 | RISH CBCT 70 | 600/1 | 30mA to 30A | 1,260 |
| CB11-0101000000000 | RISH CBCT 120 | 600/1 | 30mA to 30A | 2,625 |
| CB12-0101000000000 | Rish CBCT 210 | 600/1 | 30mA to 30A | 3,570 |
| CB05-0101001900000 | Rish CBCT 310 Tape Wound | 600/1 | 30mA to 30A | 4,725 |
| CB08-0101002000000 | Rish CBCT 38B | 600/1 | 30mA to 30A | 690 |
| CB09-0101002000000 | Rish CBCT 57B | 600/1 | 30mA to 30A | 890 |
| CB10-0101002000000 | Rish CBCT 70B | 600/1 | 30mA to 30A | 955 |
| CB11-0101002000000 | Rish CBCT 120B | 600/1 | 30mA to 30A | 1,455 |
| CB12-0101000100000 | Rish CBCT 210B | 600/1 | 30mA to 30A | 1,720 |
| CB05-0101002000000 | Rish CBCT 310B Tape Wound | 600/1 | 30mA to 30A | 3,025 |

### Tape Wound Rectangular CBCT

| Product Code | Model Name | Turns Ratio | Primary Current | LP (INR) |
|---|---|---|---|---|
| CB05-0101002900000 | Rish CBCT 280x115 | 600/1 | 30mA to 30A | |
| CB05-0101001800000 | Rish CBCT 300X300 | 600/1 | 30mA to 30A | |
| CB05-0101000700000 | Rish CBCT 350X350 | 600/1 | 30mA to 30A | |
| CB05-0101000900000 | Rish CBCT 350X450 | 600/1 | 30mA to 30A | |
| CB05-0101001000000 | Rish CBCT 400X300 | 600/1 | 30mA to 30A | |
| CB05-0101001100000 | Rish CBCT 400X400 | 600/1 | 30mA to 30A | |
| CB05-0101001200000 | Rish CBCT 500X150 | 600/1 | 30mA to 30A | |
| CB05-0101001300000 | Rish CBCT 500X400 | 600/1 | 30mA to 30A | |
| CB05-0101000800000 | Rish CBCT 500X500 | 600/1 | 30mA to 30A | |
| CB05-0101001400000 | Rish CBCT 500X600 | 600/1 | 30mA to 30A | Price On Request |
| CB05-0101001500000 | Rish CBCT 600X400 | 600/1 | 30mA to 30A | |
| CB05-0101001600000 | Rish CBCT 660X460 | 600/1 | 30mA to 30A | |
| CB05-0101001700000 | Rish CBCT 700X400 | 600/1 | 30mA to 30A | |
| CB05-0101002600000 | Rish CBCT 700X500 | 600/1 | 30mA to 30A | |
| CB05-0101002100000 | Rish CBCT 700X600 | 600/1 | 30mA to 30A | |
| CB05-0101002200000 | Rish CBCT 750x500 | 600/1 | 30mA to 30A | |
| CB05-0101002300000 | Rish CBCT 750x700 | 600/1 | 30mA to 30A | |
| CB05-0101002400000 | Rish CBCT 900x700 | 600/1 | 30mA to 30A | |
| CB05-0101002500000 | Rish CBCT 900x900 | 600/1 | 30mA to 30A | |

**Note**

1. Turns Ratio 1000/1 available on request
2. Rish CBCT 38 , 57 , 70, 120 , 210 & 310 are available with +/- 3% accuracy
3. Rish CBCT 38B , 57B , 70B, 120B , 210B , 310B and all other rectangular CBCT's are available with +/- 15% accuracy
4. CBCTs with Spring loaded connector are available on request for RISH CBCT 38, 57, 70, 120 & 210.

# Protection and Monitoring Relays

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## Static Relay

| KMAT | Model | Description | Auxiliary Supply | LP (INR) |
|---|---|---|---|---|
| **AC Current Relay** Input - 2 / 3 / 4 / 6 / 8 / 10A or 1A / 5A CT Operated | | | | |
| LA21 | 252 - PAU | Single Phase Under Current | AC : 120 / 230 / 240 / 400 / 415V | 1,430 |
| | 252 - PAO | Single Phase Over Current | | |
| LA31 | 253 - PAD | Single Phase Combined Under/Over Current | | 2,815 |
| | 253 - PAV | Three Phase Under Current | | 3,395 |
| | 253 - PAP | Three Phase Over Current | | 3,395 |
| **Optional Accessories** | | | | |
| Extra charges for DC Aux : 12 / 24 / 48 / 110V | | | | 120 |
| Extra charges for any non-standard settings other than Datasheet | | | | |
| **AC Voltage Relay With Adjustable Differential** Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V | | | | |
| LK21 | 252 - PVU | Single Phase Under Voltage | Self Powered | 1,875 |
| | 252 - PVO | Single Phase Over Voltage | | |
| LK31 | 253 - PVB | Single Phase Combined Under/Over Voltage. | | 2,815 |
| LK21 | 252 - PVV | 3 Phase 4 Wire Under Voltage | | 1,875 |
| | 252 - PVP | 3 Phase 4 Wire Over Voltage | | |
| LK31 | 253 - PVE | 3 Phase 4 Wire Combined Under/Over Voltage | | 2,815 |
| LK21 | 252 - PVK | 3 Phase 3 Wire Under Voltage | | 1,875 |
| | 252 - PVA | 3 Phase 3 Wire Over Voltage | | |
| LK31 | 253 - PVM | 3 Phase 3 Wire Combined Under/Over Voltage | | 2,815 |
| **Optional Accessories** | | | | |
| Extra charges for Aux supply / Time Delay | | | | 120 |
| **AC Voltage Relay With Adjustable Time Delay** Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V | | | | |
| LJ21 | 252 - PVZ | Single Phase Under Voltage | Self Powered | 1,875 |
| | 252 - PVH | Single Phase Over Voltage | | |
| | 252 - PVX | 3 Phase 4 Wire Under Voltage | | |
| | 252 - PVS | 3 Phase 4 Wire Over Voltage | | |
| | 252 - PVJ | 3 Phase 3 Wire Under Voltage | | |
| | 252 - PVC | 3 Phase 3 Wire Over Voltage | | |
| **Optional Accessory** | | | | |
| Extra charges for Aux supply | | | | 120 |
| **Frequency Relay With Adjustable Time Delay** Range - 40/60Hz, 50/70Hz, 360/440Hz Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V | | | | |
| LF21 | 252 - PHU | Under Frequency | Self Powered | 1,645 |
| | 252 - PHO | Over Frequency | | |
| LF31 | 253 - PHD | Combined Under/Over Frequency | | 2,815 |
| **Optional Accessory** | | | | |
| Extra charges for Aux supply | | | | 120 |
| **Combined Under / Over Voltage & Frequency** Range - 40/60Hz, 50/75Hz, 360/440Hz Input - 120 / 240V | | | | |
| LC61 | 256 - PHV | Single Phase Combined Under/Over Voltage and Frequency. | Self Powered | 5,665 |
| **Phase Sequence & Phase Failure** Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V | | | | |
| LP21 | 252 - PVR | 3 Phase 3 Wire or 4 Wire | Self Powered | 1,300 |

# Protection and Monitoring Relays

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## Static Relay

| KMAT | Model | Description | Auxiliary Supply | LP (INR) |
|---|---|---|---|---|
| **Thermistor Trip Relay** Range : Trip 2500-3500 Ohm Reset :1500 -2300 Ohm. | | | | |
| LT21 | 252 - PMT | Automatic Reset | **AC :** 110 / 120 / 220 / 230 / 240V | 1,570 |
| | 252 - PMM | Manual Reset | | |
| **Synchro Check Relay (Paralleling)** Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V | | | | |
| LS61 | 256 - PLL | 1 Generator 1 Bus or 2 Generator Systems. | Self Powered | 3,035 |
| | 256 - PLD | 1 Generator with 'DEAD BUS' facility | | 3,795 |
| **Phase Balance Relay** Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V | | | | |
| LB21 | 252 - PSF | Phase loss and Unbalance | Self Powered | 1,570 |
| | 252 - PSG | Phase loss Unbalance and Under Voltage. | | 2,060 |
| **Reverse Power (Current) Relay** Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V Input – 1/2/3/4/5/6/8/10A | | | | |
| LR61 | 256 - PAS | Single Phase or 3 Phase 4 Wire. | Self Powered | 3,280 |
| | 256 - PAT | 3 Phase 3 Wire. | | 3,345 |
| | 256 - PAQ | Single Phase or 3 Phase 4 Wire with test push button. | | 5,545 |
| | 256 - PAR | 3 Phase 3 Wire with test push button. | | |
| **DC Voltage Relay** DC Vol tage -18 to 20 or 20 to 32Vdc | | | | |
| LD21 | 252 - PDU | DC Under Voltage with external time delay | Self Powered | 2,060 |
| | 252 - PDO | DC Over Voltage with external time delay | | 2,235 |
| | 253 - PDE | DC Under Voltage with external differential | | 1,875 |
| **DC Milivolt Relay** Input-50/60/75/100/150mV ( Span- Min. 10mV ) | | | | |
| LM21 | 252 - PBS | DC Milivolt Low Trip | AC : 120 / 240V | 2,580 |
| | 252 - PBT | DC Milivolt High Trip | | |
| | Extra charges for DC Aux : 12 / 24 / 48 / 110V | | | 120 |
| **Transducer Trip Relay** Input - DC current - 1 / 5 / 10 / 20 / 4 - 20mA & DC v oltage - 1 to 50V | | | | |
| LX21 | 252 - PBA | Low Trip | AC : 120 / 240V | 2,295 |
| | 252 - PBB | High Trip | | |
| LX31 | 253 - PBV | Combined High/Low | | 4,555 |
| | Extra charges for DC Aux : 12 / 24 / 48 / 110V | | | 120 |
| **Motor Protection Relay** Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V | | | | |
| LL31 | 253 - MPR | Motor Protection Relay ( Phase Loss Reversal Unbalanced) | AC : 110 / 220 / 230 / 240 / 380 / 415V | 2,465 |
| **Earth Fault Relay** Input - 1A / 5A | | | | |
| LE31 | 253 - EFR | Earth Fault Relay | AC : 230V | 2,965 |

# Battery Chargers & Power Supplies

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## Battery Charger

| Order Code | Model No | Input Voltage | Output Voltage | Power Range | LP (INR) |
|---|---|---|---|---|---|
| BC03-1D00000000000 | 1P Elite 3612A | 115 V AC/ 230V AC | 12 V DC | 36 W | 3,120 |
| BC03-1F00000000000 | 1P Elite 7212A | | | 72 W | 3,400 |
| BC03-1G00000000000 | 1P Elite 7224A | | 24 V DC | | |
| BC03-1A00000000000 | 1P Elite 12012A | | 12 V DC | 120 W | 3,510 |
| BC03-1B00000000000 | 1P Elite 12024A | | 24 V DC | | |
| BC03-1E00000000000 | 1P Elite 12030A | | 30 V DC | | |

## Power Supply

| Order Code | Model No | Input Voltage | Output Voltage | Output Current | Power Range | LP (INR) |
|---|---|---|---|---|---|---|
| **RISH FLEX - E SERIES** | | | | | | |
| **Single Phase - Plastic Housing** | | | | | | |
| RF14-1N00000000000 | 1P FLEX - e 1515A | 115 V AC/ 230V AC | 15 V DC | 1.0 A | 15 W | 1,630 |
| RF14-1M00000000000 | 1P FLEX - e 1512A | | 12 V DC | 1.25 A | | |
| RF14-1P00000000000 | 1P FLEX - e 1524A | | 24 V DC | 0.63 A | | |
| RF14-1S00000000000 | 1P FLEX - e 3012A | | 12 V DC | 3.0 A | 30 W | 1,810 |
| RF14-1K00000000000 | 1P FLEX - e 3024A | | 24 V DC | 1.5 A | | |
| RF14-1R00000000000 | 1P FLEX - e 4512A | | 12 V DC | 3.75 A | 45 W | 1,975 |
| RF14-1L00000000000 | 1P FLEX - e 4524A | | 24 V DC | 1.75 A | | |
| RF14-1Q00000000000 | 1P FLEX - e 6012A | | 12 V DC | 5.0A | 60 W | 2,070 |
| RF14-1A00000000000 | 1P FLEX - e 6024A | | 24 V DC | 2.5 A | | |
| **Single Phase - Metal Housing** | | | | | | |
| RF14-1B00000000000 | RISH FLEX - e 9024A | 115 V AC/ 230V AC | 24 V DC | 5 A | 95 to 120 W | 2,700 |
| RF14-1C00000000000 | RISH FLEX - e 17024A | | | 7.5 A | 120 to 180 W | 2,845 |
| **Two Phase - Metal Housing** | | | | | | |
| RF14-2I00000000000 | RISH FLEX - e 9024B | 230V AC / 400V AC | 24 V DC | 5 A | 95 to 120 W | 3,770 |
| RF14-2J00000000000 | RISH FLEX - e 17024B | | | 7.5 A | 120 to 180 W | 3,945 |
| **RISH FLEX SERIES** | | | | | | |
| **Single Phase - Metal Housing** | | | | | | |
| RF13-1T00000000000 | RISH FLEX 6005A | 115 V AC/ 230V AC | 5 V DC | 5 A | 35 W | 2,500 |
| RF13-1S00000000000 | RISH FLEX 6012A | | 12 V DC | 6 A | 72 W | |
| RF13-1A00000000000 | RISH FLEX 6024A | | 24 V DC | 3 A | | |
| RF13-1Y00000000000 | RISH FLEX 9012A | | 12 V DC | 10 A | 120 W | 3,605 |
| RF13-1B00000000000 | RISH FLEX 9024A | | 24 V DC | 5 A | | 3,885 |
| RF13-1200000000000 | RISH FLEX 15012A | | 12 V DC | 12.5 A | 150 W | 3,815 |
| RF13-1300000000000 | RISH FLEX 15024A | | 24 V DC | 6.25 A | | |
| RF13-1400000000000 | RISH FLEX 15048A | | 48 V DC | 3.13 A | | |
| RF13-1R00000000000 | RISH FLEX 17012A | | 12 V DC | 14 A | 180 W | 4,005 |
| RF13-1C00000000000 | RISH FLEX 17024A | | 24 V DC | 7.5 A | | |
| RF13-1F00000000000 | RISH FLEX 17048A | | 48 V DC | 3.75 A | | 4,640 |
| RF13-1Z00000000000 | RISH FLEX 24024A | | 24 V DC | 10 A | 240 W | 6,780 |
| RF13-1P00000000000 | RISH FLEX 28012A | | 12 V DC | 16 A | 336 W | 7,535 |
| RF13-1D00000000000 | RISH FLEX 28024A | | 24 V DC | 14 A | | 7,535 |
| RF13-1G00000000000 | RISH FLEX 28048A | | 48 V DC | 7 A | | |
| RF13-1100000000000 | RISH FLEX 48024A | | 24 V DC | 20 A | 480 W | 8,345 |
| RF13-1E00000000000 | RISH FLEX 50024A | | 24 V DC | 25 A | 600 W | 9,270 |
| RF13-1H00000000000 | RISH FLEX 50048A | | 48 V DC | 12 A | | |
| **Two Phase - Metal Housing** | | | | | | |
| RF13-2I00000000000 | RISH FLEX 9024B | 230V/ 400V/ 500 V AC | 24 V DC | 5 A | 120 W | 4,755 |
| RF13-2J00000000000 | RISH FLEX 17024B | | | 7.5 A | 180 W | 4,875 |
| RF13-2K00000000000 | RISH FLEX 28024B | | | 14 A | 336 W | 8,110 |
| **Three Phase - Metal Housing** | | | | | | |
| RF13-3L00000000000 | RISH FLEX 50024B | 400 – 500 V AC | 24 V DC | 25 A | 600 W | 10,315 |
| RF13-3M00000000000 | RISH PST 2430B | 400 – 480 V AC | | 30 A | 720 W | 22,060 |
| RF13-3N00000000000 | RISH PST 2440B | | | 40 A | 960 W | 26,530 |
| **Redundancy Module** | | | | | | |
| RF13-00M0000000000 | RISH MR220 | 10 – 60 V DC | 10 – 60 V DC | 0 – 25 A (max) | ---- | 2,265 |

# Product End-Of-Life

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| KMAT | Model | Description | Auxiliary Supply | Timeline |
|---|---|---|---|---|
| **Digital Panel Meter<br>Programmable AC Ammeter** | | | | |
| EP99 | RISH EINE I<br>96 x 96 x 40<br>mm | Input : 1A /5A (Programmable)<br>Display : 14 mm LED Display<br>1 Phase Network<br>Accuracy Class : 1.0<br>4 Digit | 40...300V AC/DC or<br>20...40V AC /<br>20...60V DC | Apr'25 |
| | | Input 1A /5A (Programmable)<br>Display : 14 mm LED Display<br>3Ph 3W/4W Network<br>Accuracy Class : 1.0<br>4 Digit | | |
| **Programmable AC Voltmeter** | | | | |
| EP99 | RISH EINE V<br>96 x 96 x 40<br>mm | Input : 57.5 -300 V L-N (Programmable) & 600V LN (Fixed)<br>Display : 14 mm LED Display<br>1 Phase Network<br>Accuracy Class : 1.0<br>4 Digit* | 40...300V AC/DC or<br>20...40V AC /<br>20...60V DC | Apr'25 |
| | | Input : 100- 500 V L-L (Programmable)<br>Display : 14 mm LED Display<br>3Ph 3W/4W Network<br>Accuracy Class : 1.0<br>4 Digit | | |
| * Note - 1Phase version available on request for 4 Digit applications only, prices can be considered as per the Rish Eine 48x96 size version | | | | |
| **Multi-Function Meter<br>LED Meters - Advance Range** | | | | |
| MA3A | RISH MASTER 3430 | Input : On site Programmable - Voltage - 57.7 - 346 VL-N,<br>Current - 1/5A<br>Single Phase Network<br>Accuracy Class : 1<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + MM + NC + THD | 60- 300V<br>AC/DC or<br>12-60 V AC/DC<br>or<br>For meter with<br>Ethernet port<br>the aux. supply<br>will be 65...300V<br>AC/DC | Apr'25 |
| | | Input : On site Programmable - Voltage - 100 - 600 VL-L,<br>Current - 1/5A<br>3Ph 3W/4W Network<br>Accuracy Class : 1<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + MM + NC + THD | | |
| **Touch Screen Meters** | | | | |
| MA3I | RISH MASTER 3430 i | Input : On site Programmable - Voltage - 57.7 - 346 VL-N,<br>Current - 1/5A<br>Single Phase Network<br>Accuracy Class : 1<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + MM + NC + THD | 60- 300V<br>AC/DC or<br>12-60 V AC/DC<br>or<br>For meter with<br>Ethernet port<br>the aux. supply<br>will be 65...300V<br>AC/DC | Apr'25 |
| | | Input : On site Programmable - Voltage - 100 - 600 VL-L,<br>Current - 1/5A<br>3Ph 3W/4W Network<br>Accuracy Class : 1<br>Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + MM + NC + THD | | |
| **Power Quality Analyzer (Touch Screen)** | | | | |
| PA10 | RISH PQA | Input : On site Programmable - Voltage - 100 -866 VL-L,<br>Current - 1/5A<br>3Ph 3W/4W Network<br>Accuracy Class : 0.2s<br>8GB External memory card with 2 Relay RS 485<br>Parameters : Refer to the datasheet for details | 85-265V AC/DC | Jan'25 |
| **GSM Modules** | | | | |
| | SPAR-SD00-0707 | GSM MODULE LM 13xx 0.5S | | Apr'25 |
| | SPAR-SD00-0709 | GSM MODULE EM 13xx | | |
| | SPAR-SD00-0710 | GSM MODULE EM 2340 | | |
| | SPAR-SD00-0708 | GSM MODULE LM13xx 0.2S | | |
| | SPAR-SD00-0717 | SIM CARD (2 YEARS DATA) | | |
| | SPAR-SD00-0718 | SIM CARD (5 YEARS DATA) | | |
| | Additional nodes | Additional Report / Notification / Alarm facility – required. For additional node get in touch with RIL/ESL sales team. | | |

# Product End-Of-Life

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| KMAT | Model | Description | Auxiliary Supply | Timeline |
|---|---|---|---|---|
| **Multi-Function Transducer** | | | | |
| PR43 | RISH CON M | Type : Multi-transducer (TRMS)<br>Input : 100 or 400V L-L 1 or 5A (To be selected while ordering only)<br>Output : 0 / 2 / 4 Analog -20…0…20mA & 0 / 2 / 4 Relay (M-04 M-22 M-40)<br>Communication Port : MODBUS RS 485 & USB<br>Accuracy Class : 0.5 | 20...40 VAC / 20...60 VDC | July'25 |
| PM11 | RISH DUCER M01 | Type : Multi-transducer<br>Input : 100 to 693V L-L 1 to 6A (Configurable)<br>Communication Port : RS 232 & MODBUS RS 485<br>Accuracy Class : 0.2 for Voltage & Current<br>Class : 0.15 for Frequency<br>Class : 0.25 for Power & Power Factor | 24...60 or 85...230VAC/DC | July'25 |
| **Temperature Controller**<br>**PID Controllers - Basic** | | | | |
| TC42 | RE56 - 48 x 48 x 87.35 mm | Input: RTD Sensors: PT100 Thermocouple Sensors: J T K S R<br>Output: 1x SSR driving & 1x Relay Output;<br>Accuracy Class as per Datasheet; | 60 ... 280 V AC/DC | |
| TC40 | RE57 - 48 x 48 x 87.35 mm<br>RE96 - 96 x 96 x 72.15 mm<br>RE77 - 48 x 96 x 72.15 mm | Input: RTD Sensors: PT100 PT1000,<br>Thermocouple Sensors: J T K S R B N E,<br>Standard Signals: 0/4 ... 20mA or 0 ... 5 / 10V;<br>Output: 1x SSR driving Output or / Additional as with Extra Charges* | 60 ... 280 V AC/DC or 20 ... 60V DC / 20 V – 40V AC | Jan'25 |
| *Extra Charges for TC40 – Output combination to be specified while ordering and maximum 2 outputs are possible. | | 1x Relay Output<br>2x SSR Outputs<br>2x Relay Outputs | - | |
| **Genset Controllers** | | | | |
| GC10 | AMF | GC10-A000000000000 - AUTOMATIC MAINS FAILURE | | Jan'25 |
| | ATS | GC10-AT00000000000 - AUTO TRANSFER SWITCH | | |
| | DGC | GC10-G000000000000 - GENSET CONTROLLER | | |

## Terms and conditions

- This issue of Price List supersedes all previous Price Lists
- All Prices are in INR
- The prices are subject to change without prior notice
- List Prices mentioned are exclusive of all taxes & duties
- Prices charged will be as prevailing on the date of dispatch
- Minimum order value criterion should be observed while ordering
- The company reserves the right to supply goods at its discretion
- For any non-standard requirement, please contact nearest sales office regarding technical feasibility, price & delivery

## Warranty

- All the products listed in the Price List carry a warranty of 18 months against manufacturing defects (unless otherwise specified) from the date of purchase or 12 months from the date of commissioning, whichever is earlier

## Note

- To facilitate the ordering kindly make use of product configurator
- Kindly refer respective datasheets for detailed technical specifications. Technical specs given in this price list are in abbreviated form only for easy understanding. Selection of products must be done from the latest datasheets.
- The product approbations mentioned in the price list are on generic level, kindly contact to our nearest sales office for product-wise approbations details

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Rev : LP / 2025 / DE / 01 this replaces, Rev : LP / 2024 / DE / 01 dated 31 / 12 / 2023

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

Measure Control Record Analyze Optimize

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