



Scaling The New Heights

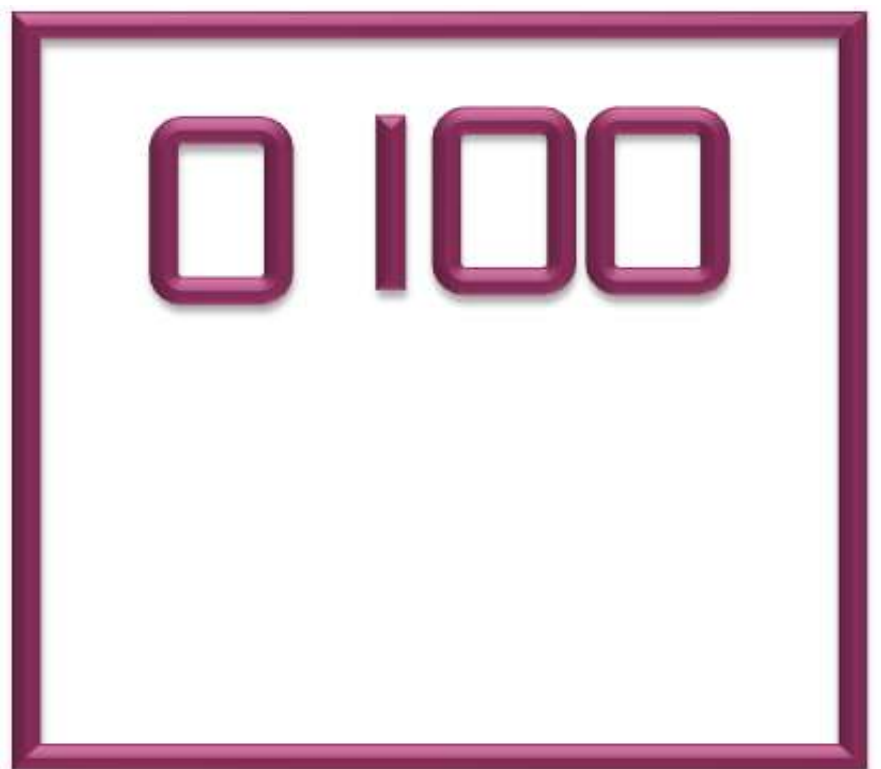
Digital Expertise
Pricelist w.e.f 1st January 2024



RISHABH

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Digital Panel Meters



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) Display : 14 mm LED Display 1 Phase Network Accuracy Class : 1.0 4 Digit		875
		96 x 96 x 40 mm	Input 1A /5A (Programmable) Display : 14 mm LED Display 3Ph 3W/4W Network Accuracy Class : 1.0 4 Digit	40...300V AC/DC or 20...40V AC / 20...60V DC	1,455
		48 x 96 x 68 mm	Input : 100mA (Primary - 63 / 125 / 250A programmable) Display : 14 mm LED Display 3Ph 3W/4W Network Accuracy Class : 0.5 4 Digit		1,605
ED99	RISH EINE NX*	96 x 96 x 40 mm	Input : 1A /5A (Programmable) 1 Phase Network Accuracy Class : 1 4 Digit	60...300V AC/DC	720
			Input : 1A /5A (Programmable) 3Ph 3W/4W Network Accuracy Class : 1 4 Digit		1,180
Programmable AC Voltmeter					
EP99	RISH EINE V	48 x 96 x 68 mm	Input : 57.5 -300 V L-N (Programmable) & 600V LN (Fixed) Display : 14 mm LED Display 1 Phase Network Accuracy Class : 1.0 4 Digit	40...300V AC/DC or 20...40V AC / 20...60V DC	875
		96 x 96 x 40 mm	Input : 100- 500 V L-L (Programmable) Display : 14 mm LED Display 3Ph 3W/4W Network Accuracy Class : 1.0 4 Digit		1,455
ED99	RISH EINE NX*	96 x 96 x 40 mm	Input : 57.5 -480 V L-N (Programmable) 1 Phase Network Accuracy Class : 1 3 Digit	60...300V AC/DC	720
			Input : 100- 500 V L-L (Programmable) 3Ph 3W/4W Network Accuracy Class : 1 4 Digit		1,180
Non- Programmable AC Ammeter					
DA14	RISH ACI	72 x 144 x 94 mm	Input : 1 / 5A (To be specified while ordering only) Display : 26 mm LED Display Single Phase Network Accuracy Class : 1 4 1/2 Digit	110 / 230V AC	4,100
				24 / 110 / 220V DC	5,185
Non- Programmable AC Voltmeter					
DA14	RISH ACV	72 x 144 x 94 mm	Input : 110 / 240 / 500V (To be specified while ordering only) Display : 26 mm LED Display Single Phase Network Accuracy Class : 1 4 1/2 Digit	110 / 230V AC	4,100
				24 / 110 / 220V DC	5,185
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)		

Note -

*RISH Eine NX : MOQ - 25Nos applicable for any combination and it is mandatory for any order received from channel partners.

Digital Panel Meters



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 48 x 96 x 68 mm	Input : -10...0...+10mA / -20...0...+20mA / 4...20mA / -1...0...+1A / -5...0...+5A Accuracy Class : 0.5 4 Digit (Input range to be specified while ordering only)	40...300VAC/DC or 20...40VAC / 20...60VDC	1,340
Non - Programmable DC Ammeter					
		48 x 96 x 138 mm	Input : 0 - 20 & 4 - 20mA Display : 14 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	2,260
				24 / 110 V DC	2,955
DD14	RISH ADC	96 x 96 x 55 mm	Input : 0 - 20 & 4 - 20mA Display : 14 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	2,395
				24 / 110 V DC	3,055
		72 x 144 x 94 mm	Input : 0 - 20 & 4 - 20mA Display : 26 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	4,500
				24 / 110 V DC	5,280
Programmable DC Voltmeter					
EI99	RISH EINE +	96 x 96 x 35 mm 48 x 96 x 68 mm	Input : -75...0...+75mV / -150...0...+150mV / -5...0...+5V / -10...0...+10V / 0...500V / 0...1000V Accuracy Class : 0.5 4 Digit (Input range to be specified while ordering only)	40...300VAC/DC or 20...40VAC / 20...60VDC	1,340
Non - Programmable DC Voltmeters					
	RISH VDC C	48 x 96 x 138 mm	Input : 0 - 60 / 75 / 150 / 200mV Display : 14 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	2,330
				24 / 110 V DC	3,035
	RISH VDC F		Input : 0 - 2 / 20 / 200 / 500 / 1000V Display : 14 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	2,435
				24 / 110 V DC	3,180
DD14	RISH VDC C	96 x 96 x 55 mm	Input : 0 - 60 / 75 / 150 / 200mV Display : 14 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	2,435
				24 / 110 V DC	3,150
	RISH VDC F		Input : 0 - 2 / 20 / 200 / 500 / 1000V Display : 14 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	2,435
				24 / 110 V DC	3,150
	RISH VDC C	72 x 144 x 94 mm	Input : 0 - 60 / 75 / 150 / 200mV Display : 26 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	4,455
				24 / 110 V DC	5,225
	RISH VDC F		Input : 0 - 2 / 20 / 200 / 500 / 1000V Display : 26 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	4,455
				24 / 110 V DC	5,225



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Digital Panel Meters



KMAT	Model	Size (H x W x D)	Description	Auxiliary Supply	LP (INR)
Power DPM					
		96 x 96 x 80 mm	Input : 63.5 / 133 / 239.6 / 254V L-N 110 / 230 / 415 / 440V L-L & 1 or 5A Display : 11 mm or 20 mm LED Display Single & 3Ph 3W/4W Network Accuracy Class : 1) KW / KVA - $\pm 0.5\%$ of range 2) KVAr - $\pm 1\%$ of range Power Range : Max 694.4 MVA for 3 Phase and 333 MVA for 1Phase according to CT/PT Ratio 4 Digit	110 / 230VAC	4,220
				12 - 48VDC 100 - 250 VAC/DC	5,075
PP44	Power DPM	72 x 144 x 94 mm	Input : 63.5 / 133 / 239.6 / 254V L-N 110 / 230 / 415 / 440V L-L & 1 or 5A Display : 26 mm LED Display Single & 3Ph 3W/4W Network Accuracy Class : 1) KW / KVA - $\pm 0.5\%$ of range 2) KVAr - $\pm 1\%$ of range Max 694.4 MVA for 3 Phase and 333 MVA for 1Phase According to CT/PT Ratio 4 Digit	45...300VAC/DC or 20...40VAC / 20...60VDC	5,685
Power Factor DPM					
		96 x 96 x 80 mm	Input : 63.5 / 133 / 239.6 / 254V L-N 110 / 230 / 415 / 440V L-L & 1 or 5A Display : 11 mm or 20 mm LED Display Single & 3Ph 3W/4W Network Accuracy Class : $\pm 2^\circ$ 4 Digit	110 / 230VAC	4,410
				12 - 48VDC 100 - 250 VAC/DC	5,075
PF44	PF DPM	72 x 144 x 94 mm	Input : 63.5 / 133 / 239.6 / 254V L-N 110 / 230 / 415 / 440V L-L & 1 or 5A Display : 26 mm LED Display Single & 3Ph 3W/4W Network Accuracy Class : $\pm 2^\circ$ 4 Digit	45... 300VAC/DC or 20...40VAC / 20...60VDC	5,845
Frequency DPM					
		48 x 96 x 68 mm			
		96 x 96 x 55 mm	Input : 50...500V Range : 10...500Hz Accuracy : $\pm 0.5\text{Hz} \pm 1$ Digit 4 Digit	40... 300VAC/DC or 20...40VAC / 20...60VDC	1,465
DH10	RISH DPM Hz	72 x 144 x 94 mm			3,790



Multi-Function Meters



KMAT	Model	Description	Auxiliary Supply	LP (INR)
LED Meters				
Basic Range				
AV00	RISH CD30			1,370
	RISH CD60	Input : 57.7...300 V L-N 30A or 60A 2 Line LED Display 4Digit Single Phase Network		1,410
	RISH CD30 - with RS485	Accuracy Class : 0.5 Parameters : VAF + THD+ RH + OH + NI + MM + RPM		2,220
	RISH CD60 - with RS 485		60 - 280V AC/DC or 20 - 60 V AC/DC	2,260
	RISH CR12	Input : 100...500 V L-L 100mA 2 Line LED Display 4Digit Single Ph & 3Ph 3W/4W Network		1,370
	RISH CR12 - with RS485 + 1 Relay	Accuracy Class : 0.5 Parameters : VAF + THD+ RH + OH + NI + MM + RPM		2,370
VF10	RISH OPTIMA VAF	Input : 100...500 V L-L 1 / 5A 3 Line LED Display 3Digit Single Ph & 3Ph 3W/4W Network Accuracy Class : 1 Parameters : VAF + RH + OH + NI + MM + RPM	40 - 300V AC/DC or 20-40 V AC / 20-60 V DC	1,660
DE10 NEW!	RISH DELTA VAF NX Basic			1,800
	RISH DELTA VAF NX Basic + RS485	Input : 100...500 V L-L 1 / 5A 3 Line LED Display 4 Digit Single Ph & 3Ph 3W/4W Network	60 - 300V AC/DC or 20 - 60 V AC/DC	2,500
	RISH DELTA VAF NX Basic + 1 Relay	Accuracy Class : 0.5 Parameters : VAF + RH + OH + NI + MM + RPM + PF		2,300
DE20 NEW!	RISH DELTA VAF NX Basic + RS485 + 1Relay			2,800
	RISH DELTA POWER NX Basic			2,350
	RISH DELTA POWER NX Basic + RS485	Input : 100...500 V L-L 1 / 5A 3 Line LED Display Single Ph & 3Ph 3W/4W Network	60 - 300V AC/DC or 20 - 60 V AC/DC	3,050
DE30 NEW!	RISH DELTA POWER NX Basic + 1 Relay	Accuracy Class : 0.5 Parameters : VAF + kW + kVAr + kVA + PF + PA + RH + OH + NI + MM + RPM+ DM + MD + NC		2,850
	RISH DELTA POWER NX Basic + RS485 + 1Relay			3,350
DE30 NEW!	RISH DELTA ENERGY NX Basic	Input : 100...500 V L-L 1 / 5A 3 Line LED Display Single Ph & 3Ph 3W/4W Network	60 - 300V AC/DC or 20 - 60 V AC/DC	4,150
	RISH DELTA ENERGY NX Basic + RS485 + 1Relay	Accuracy Class : 1, as per 62053-21 Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + RPM + DM + MD + THD + NC		5,150
AC Energy Meter				
EM91	EM 3490SS	Input : 100 / 230 / 415 / 440 V L-L 1 / 5A Energy Meter with LED Display Single Ph & 3Ph 3W/4W Network Accuracy Class : 1 Parameters : kWh	380V AC or 12 - 48V DC / 100-250V AC/DC	4,625
EM92	EM 3490DS	Input : 100 / 230 / 415 V L-L 1 / 5A Dual Source Energy Meter with LED Display Single Ph & 3Ph 3W/4W Network Accuracy Class : 1 Parameters : VAF + kW + kVA + kWh + kVAh + PF + RH + OH + NI		5,805
DC Energy Meter				
EM93	RISH EMDC -6001	Basic Model 6001 4 Channel (without USB RTC & In-built Memory for Data logging) Input Voltage : 10-60 / 61-200 / 201-1000V DC Accuracy Class : 1 Parameters : VA + kW + kWh + RH + OH + NI + DM		8,255
	RISH EMDC -6002	Higher Model 6002 4 Channel (with USB + RTC + In-built Memory for Data logging) Input Voltage : 10-60 / 61-200 / 201-1000V DC Accuracy Class : 1 Parameters : VA + kW + kWh + RH + OH + NI + DM + MD	60...300V AC/DC or 12 - 70 VDC	11,550
EM94	RISH EMDC -6000	Basic Model 6000 1 Channel Input Voltage : 10-60 / 61-200 / 201-1000V DC Shunt Input : 50-150mV Accuracy Class : 0.5 Parameters : VA + kW + kWh + RH + OH + NI + DM	60 - 300 V AC / DC or 20 - 60 VAC / DC	4,000



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Multi-Function Meters



KMAT	Model	Description	Auxiliary Supply	LP (INR)
LED Meters - Advance Range				
MA3A	RISH MASTER 3430	Input : On site Programmable - Voltage - 57.7 - 346 VL-N, Current - 1/5A Single Phase Network Accuracy Class : 1 Parameters : VAF + kW + kVA + kVAh + kWh + kVAh + kVAh + PF + PA + MM + NC + THD	60- 300V AC/DC or 12-60 V AC/DC or	7,010
		Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A 3Ph 3W/4W Network Accuracy Class : 1 Parameters : VAF + kW + kVA + kVAh + kWh + kVAh + kVAh + PF + PA + MM + NC + THD	For meter with Ethernet port the aux. supply will be 65...300V AC/DC	7,425
MA4A	RISH MASTER 3440	Input : On site Programmable - Voltage - 57.7 - 346 VL-N, Current - 1/5A Single Phase Network Accuracy Class : 1 Parameters : VAF + kW + kVA + kVAh + kWh + kVAh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD	60- 300V AC/DC or 12-60 V AC/DC Aux supply will be 100-550 VAC/DC for accuracy class 0.2s or	9,080
		Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A 3Ph 3W/4W Network Accuracy Class : 1 Parameters : VAF + kW + kVA + kVAh + kWh + kVAh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD	For meter with Ethernet port the aux. supply will be 65...300V AC/DC	9,880
LCD Meters				
	RISH EM 1320	Input : On site Programmable - Voltage - 100 - 500 VL-L, Current - 1/5A Single Phase 3Ph 3W/4W Network with LCD Display Accuracy Class : 1 Parameters : kWh + kVAh		2,900
	RISH EM 1330	Input : On site Programmable - Voltage - 100 - 500 VL-L, Current - 1/5A Single Phase 3Ph 3W/4W Network with LCD Display Accuracy Class : 1 Parameters : VAF + kW + kVA + kWh + kVAh + PF + PA + RH + OH + NI + MM + NC		3,510
WHOP	RISH EM 1340	Input : On site Programmable - Voltage - 100 - 500 VL-L, Current - 1/5A Single Phase 3Ph 3W/4W Network with LCD Display Accuracy Class : 1 Parameters : VAF + kW + kVA + kVAh + kWh + kVAh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD	60...300VAC/DC or 20...40VAC or 20...60VDC	5,285
	RISH EM 2340DS	Input : On site Programmable - Voltage - 100 - 500 VL-L, Current - 1/5A Dual Source Energy Meter with LCD Display Single Phase 3Ph 3W/4W Network Accuracy Class : 1 Parameters : VAF + kW + kVA + kVAh + kWh + kVAh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD		4,200
MA3L	RISH LM 1340	Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A Big LCD Display, 3 Line 5 Digits 3Ph 3W/4W Network Accuracy Class : 0.5S Energy Parameters - Individual phasewise and system Energy Measurement as per IEC 62053-22 / 23 and IEC 61557-12 Parameters : VAF + kW + kVA + kVAh + kWh + kVAh + kVAh + PF + DPF + PA + RH + OH + NI + MM + NC + THD + RPM + IH + TAR + UB	100-550V AC/DC or 12-60V AC/DC	8,500
	RISH LM 1360	Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A Big LCD Display 3Ph 3W/4W Network Accuracy Class : 0.5S Parameters : VAF + kW + kVA + kVAh + kWh + kVAh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + RPM + IH	100-550V AC/DC or 12-60V AC/DC	9,485
MA4L	RISH LM 1360	Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 100mA over RJ12 Big LCD Display 3Ph 3W/4W Network Accuracy Class : 1 Parameters : VAF + kW + kVA + kVAh + kWh + kVAh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + RPM + IH		8,365



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Multi-Function Meters



KMAT	Model	Description	Auxiliary Supply	LP (INR)
		Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A Big LCD Display 3Ph 3W/4W Network Accuracy Class : 0.2S, RS 485 Modbus communication Energy Parameters - Individual phasewise and system Energy Measurement as per IEC 62053-22 / 23 and IEC 61557-12 %THD and individual Harmonics Measurement (upto 63rd Harmonic) Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + DPF + PA + RH + OH + NI + MM + NC + THD + RPM + IH + TAR + UB		21,000
MA8L	RISH LM 1380	Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A Big LCD Display 3Ph 3W/4W Network Accuracy Class : 0.2S, Ethernet Interface (MODBUS TCP/IP Protocol) Energy Parameters - Individual phasewise and system Energy Measurement as per IEC 62053-22 / 23 and IEC 61557-12 %THD and individual Harmonics Measurement (upto 63rd Harmonic) 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	23,600
		Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A Big LCD Display 3Ph 3W/4W Network Accuracy Class : 0.2S, RS 485 + Ethernet Interface (MODBUS TCP/IP Protocol) + 4Digital Inputs + 2 Digital Outputs Energy Parameters - Individual phasewise and system Energy Measurement as per IEC 62053-22 / 23 and IEC 61557-12 %THD and individual Harmonics Measurement (upto 63rd Harmonic) Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + DPF + PA + RH + OH + NI + MM + NC + THD + RPM + IH + TAR + UB		38,000
	Multiload Monitor RISH ML 1400 (Class 1)	Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 100mA over RJ12 Big LCD Display 1Ph 2W, 3Ph 3W/4W Network 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	16,500
MLM1	Multiload Monitor RISH ML 1410 (Class 0.5s)	RS485 (Modbus RTU) - 2 Relay		17,880
	Optional Modules	RS485 (Modbus RTU) - 2 Relay - USB RS485 (Modbus RTU) - 4 Relay (USB not possible) Ethernet (Modbus TCP/IP) (USB & Relay not possible) Data-logging QuickFix Module - RJ00 - 3x single phase CTs with 100mA to 100mA (via RJ12) QuickFix Module - RJ01 - 3x CTs with 1A to 100mA (via RJ12) QuickFix Module - RJ05 - 3x CTs with 5A to 100mA (via RJ12) QuickFix Module - RC30 - 3x CBCT to RJ12 RJ12 Split Cable		1,450 1,500 2,555 2,080 500 990 1,050 600 290
Touch Screen Meters				
MA3I	RISH MASTER 3430 i	Input : On site Programmable - Voltage - 57.7 - 346 VL-N, Current - 1/5A Single Phase Network Accuracy Class : 1 Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + MM + NC + THD	60- 300V AC/DC or 12-60 V AC/DC or For meter with Ethernet port the aux. supply will be 65...300V AC/DC	9,185
		Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A 3Ph 3W/4W Network Accuracy Class : 1 Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + MM + NC + THD		9,810
MA4I	RISH MASTER 3440 i	Input : On site Programmable - Voltage - 57.7 - 346 VL-N, Current - 1/5A Single Phase Network Accuracy Class : 1 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 Aux supply will be 100-550 VAC/DC for accuracy class 0.2s or For meter with Ethernet port the aux. supply will be 65...300V AC/DC	12,060
		Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A 3Ph 3W/4W Network Accuracy Class : 1 Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD		12,685



Multi-Function Meters



KMAT	Model	Description	Auxiliary Supply	LP (INR)
		Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A 3Ph 3W/4W Network With Data logging Accuracy Class : 0.2s Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + IH + RTC Output - RS485 - 2 Pulse Output		19,545
MA4S	RISH MASTER 3440 IDL	Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A 3Ph 3W/4W Network With Data logging Accuracy Class : 0.2s Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + IH + RTC Output - RS485 - 1 Pulse Output - 2 Analog Output	100-550V AC/DC or 12-60V AC/DC	21,665
		Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A 3Ph 3W/4W Network With Data logging Accuracy Class : 0.2s Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + IH + RTC Output - Ethernet (MODBUS TCP/IP)		25,000
Power Quality Monitor (Touch Screen)				
PA00	RISH POM	Input : On site Programmable - Voltage - 100 - 500 VL-L, Current - 1/5A 3Ph 3W/4W Network Accuracy Class : 0.5s 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	18,195
Advance Dual Source Energy Meter (Touch Screen)				
WH10	RISH 3490DS i	Input : On site Programmable - Voltage - 100 - 500 VL-L, Current - 1/5A 3Ph 3W/4W Network or 1 Phase Accuracy Class : 0.5s 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	19,185
Smart Demand Controller (Touch Screen)				
DM82	RISH DMC i	Input : On site Programmable - Voltage - 100 - 500 VL-L, Current - 1/5A 3Ph 3W/4W Network or 1 Phase Accuracy Class : 0.5s, 4 Relay output Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + IH + RTC	60-300V AC/DC	27,490
Power Quality Analyzer (Touch Screen)				
PA10	RISH POA	Input : On site Programmable - Voltage - 100 - 866 VL-L, Current - 1/5A 3Ph 3W/4W Network Accuracy Class : 0.2s 8GB External memory card with 2 Relay RS 485 Parameters : Refer to the datasheet for details	85-265V AC/DC	103,145
DIN Rail Meters (LCD Screen)				
		Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A Big LCD Display, 3 Line 4 Digits 3Ph 3W/4W Network Accuracy Class : 0.5s Communication - RS 485 Modbus communication Energy Parameters - Individual phasewise and system Energy Measurement as per IEC 62053-22 / 23 and IEC 61557-12 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	7,000
MD00	Din Rail - RISH MD 1340	Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 100mA over RJ12 Big LCD Display, 3 Line 4 Digits 3Ph 3W/4W Network Accuracy Class : 0.5s Communication - RS 485 Modbus communication Energy Parameters - Individual phasewise and system Energy Measurement as per IEC 62053-22 / 23 and IEC 61557-12 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	6,300
		RISH ED 1100 - With RS 485 -63A		2,750
		RISH ED 1100 - With RS 485 + 1DI + 2DO - 63A		3,050
		RISH ED 1100 - With RS 485 - 100A		2,900
		RISH ED 1100 - With RS 485 + 1DI + 2DO - 100A		3,200
ED00	RISH ED 1100			
ED01	RISH ED 1000	Direct current Energy Meter 1U Size, Single Phase, 45A, 1) RS 485 + 1SO		
ED04	RISH ED 1200	Direct current Energy Meter 4U Size, Three Phase, 80A or 100A, 1) RS485 + 1SO + 1DI, 2) RS485 + 2SO + 2DI		



Multi-Function Meters

KMAT	Model	Description	Auxiliary Supply	LP (INR)
Optional Accessories for Multi-function Meters*				
1	Accuracy class 0.5	RM 3430, RM 3440, RM 3430i, RM 3440i, EM 3490SS, EM 3490DS		1,450
2	Accuracy class 0.2	RM 3430, RM 3440, RM 3430i, 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, PQM, DMCi, EM 3490DSi, RISH EMDC 6001/2, RISH LM 1340		1,155
5	RS485 + 2 Relay / Pulse	RM 3430, RM 3440, RM 3430i, RM 3440i, LM 1360, PQM, EM 3490DSi,		1,155
6	RS485 + 2 Relay / Pulse	RISH EM DC 6000		1,575
7	RS485 + 1 Relay / Pulse + 2 Analog	RM 3430, RM 3440, RM 3430i, 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 / DELTA VAF, DELTA Power		1,065
13	2 Pulse /Relay	EM 1330, EM 1340, EM 2340DS, EMDC 6001/2		1,450
14	Ethernet Interface (MODBUS TCP/IP Protocol)	RM 3430, RM3430i, 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		6,150
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-SD00-0707	GSM MODULE LM 13xx 0.5S		
26	SPAR-SD00-0709	GSM MODULE EM 13xx		17,345 (Including The software)
27	SPAR-SD00-0710	GSM MODULE EM 2340		
28	SPAR-SD00-0708	GSM MODULE LM13xx 0.2S		
29	SPAR-SD00-0717	SIM CARD (2 YEARS DATA)		2,300
30	SPAR-SD00-0718	SIM CARD (5 YEARS DATA)	Standard Discount is not applicable	5,000
31	Additional nodes	Additional Report / Notification / Alarm facility – required. For additional node get in touch with RIL/ESL sales team.		2,500
32	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
 kVA_r - Reactive Power
 kVA - Apparent Power
 kWh - Active Energy
 kVA_rh - 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

KMAT	Model	Description	Auxiliary Supply	LP (INR)
Programmable RISH CON Series				
CM41	RISH CON I	Type : Current (TRMS) Input : 1...5A Output : 0...20mA / 4...20mA OR 0...10V Accuracy Class : 0.2		3,820
	RISH CON V	Type : Voltage (TRMS) Input : 57...500V Output : 0...20mA / 4...20mA OR 0...10V Accuracy Class : 0.2	60...300VAC/DC or 24...60VAC/DC	
CF41	RISH CON Hz	Type : Frequency (TRMS) Input : 45...55 / 48...52 / 55...65 / 45...65 Hz (57...500V) Output : 0...20mA / 4...20mA OR 0...10V Accuracy Class : 0.2		4,250
CP41	RISH CON P	Type : Power / Power Factor (TRMS) Input : 100...500V LL 1...5A Output : 0...20mA / 4...20mA OR 0...10V / -20mA...0...+20mA / - 10V...0...+10V Accuracy Class : 0.2, Class 0.5 for PF and Phase angle		8,185
CM44	RISH CON M+	Type : Multi-transducer (TRMS) Input : 100 to 600V L-L, 1 or 5A Output : Analog Outputs 0...20mA OR 0...10V & 0 / 2 Relay (M-22 M-40) Communication Port : USB Accuracy Class : 0.2 for Voltage & Current Class : 0.2 for Frequency Class : 0.5 for Power & Power Factor Active Energy Class 0.5s as per 62053-22	85...285V AC / DC#	14,950
		Type : Multi-transducer (TRMS) Input : 100 to 600V L-L, 1 or 5A Output : Analog Outputs 0...20mA OR 0...10V & 2 Relay (M-42) Communication Port : USB Accuracy Class : 0.2 for Voltage & Current Class : 0.2 for Frequency Class : 0.5 for Power & Power Factor Active Energy Class 0.5s as per 62053-22		15,550
# Note : In case of lower aux requirement, please contact nearest sales office				
Programmable RISH DUCER MXX Series				
PM11	RISH DUCER M20	Type : Multi-transducer Input : 100 to 693V L-L 1 to 6A (Configurable) Output : 2 Analog Outputs 0...20mA OR 0...10V Communication Port : RS 232 Accuracy Class : 0.2 for Voltage & Current Class : 0.15 for Frequency Class : 0.25 for Power & Power Factor		17,810
	RISH DUCER M30	Type : Multi-transducer Input : 100 to 693V L-L 1 to 6A (Configurable) Output : 3 Analog Outputs 0...20mA OR 0...10V Communication Port : RS232 Accuracy Class : 0.2 for Voltage & Current Class : 0.15 for Frequency Class : 0.25 for Power & Power Factor		23,180
	RISH DUCER M24	Type : Multi-transducer Input : 100 to 693V L-L 1 to 6A (Configurable) Output : 2 Analog Outputs 0...20mA OR 0...10V 4 Digital Outputs Communication Port : RS 232 Accuracy Class : 0.2 for Voltage & Current Class : 0.15 for Frequency Class : 0.25 for Power & Power Factor	24...60 or 85...230VAC/DC	22,765
	RISH DUCER M42	Type : Multi-transducer Input : 100 to 693V L-L 1 to 6A (Configurable) Output : 4 Analog Outputs 0...20mA OR 0...10V 2 Digital Outputs Communication Port : RS 232 Accuracy Class : 0.2 for Voltage & Current Class : 0.15 for Frequency Class : 0.25 for Power & Power Factor		23,930

KMAT	Model	Description	Auxiliary Supply	LP (INR)
	RISH DUCER M40	Type : Multi-transducer Input : 100 to 693V L-L 1 to 6A (Configurable) Output : 4 Analog Outputs 0...20mA OR 0...10V Communication Port : RS 232 & MODBUS RS 485 Accuracy Class : 0.2 for Voltage & Current Class : 0.15 for Frequency Class : 0.25 for Power & Power Factor		27,820
PM11			24...60 or 85...230VAC/DC	
	RISH DUCER M01	Type : Multi-transducer Input : 100 to 693V L-L 1 to 6A (Configurable) Communication Port : RS 232 & MODBUS RS 485 Accuracy Class : 0.2 for Voltage & Current Class : 0.15 for Frequency Class : 0.25 for Power & Power Factor		19,870

Non - Programmable RISH CON Series

CM22	RISH CON CA	Type : Current AVG (Single input Single output) Input : 0...1 / 0...5A Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0...5V / 0...10V Accuracy Class : 0.2		2,625
CM21		Type : Current TRMS (Single input Single output) Input : 0...1 / 0...5A Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0...5V / 0...10V Accuracy Class : 0.2		3,500
CM22	RISH CON CV	Type : Voltage AVG (Single input Single output) Input : 0...63.5V to 0...500V Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0...5V / 0...10V Accuracy Class : 0.2	40...300VAC/DC or 24...60VAC/DC	2,625
CM21		Type : Voltage TRMS (Single input Single output) Input : 0...63.5V to 0...500V Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0...5V / 0...10V Accuracy Class : 0.2		3,500
CM23	RISH CON CA	Type : Current - AVG (Single input Dual output) Input Range : 0...1 / 0...5A Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0...5V / 0...10V Accuracy Class : 0.2	60...300 VAC/DC or 20...40VAC / 20...60VDC	3,840
	RISH CON CV	Type : Voltage - AVG (Single input Dual output) 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 Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0...5V / 0...10V Accuracy Class : 0.2		
CA11	RISH CON I11	Type : Current AVG (Single input Single output) Input : 0...1 / 0...5A Output : 0...20mA / 0..10mA / 0...5mA / 4...20mA / 0...10V Accuracy Class : 0.5	Self Powered 12-30VDC for 4..20mA output	2,350



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



KMAT	Model	Description	Auxiliary Supply	LP (INR)
Process Transducers				
PI01	RISH PI 101	Type : Programmable Single output DC Isolator 1 Input-1 Output Input Range - DC Current :0...20 / 0...10 / 4...20 / 0...24 mA DC DC Voltage : 0...12 / 0...10 / 0...5 / 1...5 VDC, Output - DC Current : 0..10mA / 0...20mA / 2..10mA / 4...20mA DC Voltage : 0...5 / 1...5 / 0...10 / 2...10V Accuracy Class : 0.2	60...300 VAC/DC or 20...40VAC / 20...60VDC	2,200
PI02	RISH PI 102	Type : Programmable Dual output DC Isolator 1 Input-2 Output Input Range - DC Current :0...20 / 0...10 / 4...20 / 0...24 mA DC DC Voltage : 0...12 / 0...10 / 0...5 / 1...5 VDC, Output - DC Current : 0..10mA / 0...20mA / 2..10mA / 4...20mA DC Voltage : 0...5 / 1...5 / 0...10 / 2...10V Accuracy Class : 0.2		3,300
PI02	RISH PI 102 with Loop powered output	Type : Programmable Dual output DC Isolator 1 Input-2 Output Input Range - DC Current :0...20 / 0...10 / 4...20 / 0...24 mA DC DC Voltage : 0...12 / 0...10 / 0...5 / 1...5 VDC, Output - DC Current : 0..10mA / 0...20mA / 2..10mA / 4...20mA DC Voltage : 0...5 / 1...5 / 0...10 / 2...10V Accuracy Class : 0.2, Transmitter Power Supply 24VDC(+/- 15%)	60...300 VAC/DC or 20...40VAC / 20...60VDC	3,850
SI01	RISH CON SI-101	Type : Powerful DC Signal Isolator 1 Input-1 Output Input - DC Current : 0...20mA / 4...20mA / 1...5mA DC Voltage : 0...10V / 2...10V / 1...5V Output - DC Current : 0...20mA / 4...20mA DC Voltage : 0...10V / 2...10V Accuracy Class : 0.2	24...60V AC/DC or 60 ...300V AC/DC	2,180
SI02	RISH CON SI-102	Type : Powerful DC Signal Isolator 1 Input-2 Output Input - DC Current : 0...20mA / 4...20mA / 1...5mA DC Voltage : 0...10V / 2...10V / 1...5V Output - DC Current : 0...20mA / 4...20mA DC Voltage : 0...10V / 2...10V Accuracy Class : 0.2		3,270
	TV 808	Type : DC Isolator 1 Input-1 Output (S17 or E8 Housing) Input - 0.1mA...20mA & 4...20mA & 0.06V...40V Output - DC Current : 0...20mA, 4...20mA DC Voltage : 0...5V, 0...10V Accuracy Class : 0.2 for S17Housing, Class 0.5 for E8 Housing		2,750
TV 08	TV 808	Type : DC Isolator 1 Input-2 Output (S17 or E8 Housing) Input - 0.1mA...20mA & 4...20mA & 0.06V...40V Output - DC Current : 0...20mA, 4...20mA DC Voltage : 0...5V, 0...10V Accuracy Class : 0.2 for S17Housing, Class 0.5 for E8 Housing	24...60V AC/DC or 85 ...230V AC/DC	3,855
	TV 808	Type : DC Isolator 2 Input-2 Output (S17 Housing) Input - 0.1mA...20mA & 4...20mA & 0.06V...40V Output - DC Current : 0...20mA, 4...20mA DC Voltage : 0...5V, 0...10V Accuracy Class : 0.2 for S17 Housing		4,410

KMAT	Model	Description	Auxiliary Supply	LP (INR)
Tap Position Transducers				
	RISH CON TPT	Type : Tap Position Input - 0-17kOhm, 0-18kOhm, 0-20kOhm, 0-25kOhm Output - DC Current : 0...20mA / 4...20mA DC Voltage : 0...10V / 2...10V Accuracy Class : 0.2		5,065
CT25	RISH CON TPT	Type : Tap Position with display Input - 0-17kOhm, 0-18kOhm, 0-20kOhm, 0-25kOhm Output - DC Current : 0...20mA / 4...20mA DC Voltage : 0...10V / 2...10V Accuracy Class : 0.2	24...60V AC/DC or 60 ...300V AC/DC	6,065
	RISH CON TPT (96x96)	Type : Tap Position with display (96 X 96) Input - 0-17kOhm, 0-18kOhm, 0-20kOhm, 0-25kOhm Output - DC Current : 0...20mA / 4...20mA DC Voltage : 0...10V / 2...10V Accuracy Class : 0.2		5,570
Universal Transmitter				
V604	RISH DUCER V604	Type : Programmable Transmitter Input - DC Voltage/Current / Resistance / Temp. etc. Output - DC Current : 0...20mA / 4...20mA DC Voltage : 0...5V / 1...5V / 0...10V / 2...10V Accuracy Class : 0.2	24...60V AC/DC or 85 ...230V AC/DC	8,535
Temperature Transmitter				
PT02	PT 602	Type : 1 Channel Temperature transmitter (1 I/P / 1 O/P) Input - Temperature (PT100) Output - DC Current : 0...20mA / 4...20mA DC Voltage : 0...10V Accuracy Class : 0.5	24...60V AC/DC or 85 ...230V AC/DC	6,245
		Type : 2 Channel Temperature transmitter (2 I/P / 2 O/P) Input - Temperature (PT100) Output - DC Current : 0...20mA / 4...20mA DC Voltage : 0...10V Accuracy Class : 0.5		7,820
Optional Accessories for Process Transducers				
RS 485		RISH CON TPT 96 X 96		1,155
Non Standard Input / Output		RISH DUCER TV808 and RISH CON SI 101 / SI 102		780
PK60-P100000000000		Programming RS232 & Configuration Adapter + Cable for RISH DUCER V604		
SPAR-SD00-0781		Programming Cable for Configuration of RISH CON TPT (96 x 96)		1,260
SPAR-SD00-0229		Programming Cable for Configuration of RISH CON TPT (DIN)		



Controllers



Group	Size	Description	Auxiliary Supply	LP (INR)
PID Controllers - Basic				
TC42	RE56 - 48 x 48 x 87.35 mm	Input: RTD Sensors: PT100 Thermocouple Sensors: J T K S R Output: 1x SSR driving & 1x Relay Output; Accuracy Class as per Datasheet;	60 ... 280 V AC/DC	1,350
TC40	RE57 - 48 x 48 x 87.35 mm	Input: RTD Sensors: PT100 PT1000, Thermocouple Sensors: J T K S R B N E, Standard Signals: 0/4 ... 20mA or 0 ... 5 / 10V; Output: 1x SSR driving Output or / Additional as with Extra Charges*	60 ... 280 V AC/DC or 20 ... 60V DC / 20 V - 40V AC	2,320
	RE96 - 96 x 96 x 72.15 mm			2,550
	RE77 - 48 x 96 x 72.15 mm			2,420
*Extra Charges for TC40 – Output combination to be specified while ordering and maximum 2 outputs are possible.		1x Relay Output		140
		2x SSR Outputs		170
		2x Relay Outputs		300



Group	Model	Order Code	LP (INR)
Genset Controllers			
	AMF	GC10-A000000000000 - AUTOMATIC MAINS FAILURE	20,860
GC10	ATS	GC10-AT000000000000 - AUTO TRANSFER SWITCH	19,850
	DGC	GC10-G000000000000 - GENSET CONTROLLER	19,360



Protection and Monitoring Relays



Analog Protection Relay

Product Code	System	Relay	LP (INR)
Phase Failure Relay - Rish Relay PHR			
PR10-P41111000000	PhR 3P3W 110VLL 50Hz NE 1 Relay		
PR10-P41121000000	PhR 3P3W 110VLL 50Hz ND 1 Relay		
PR10-P41211000000	PhR 3P3W 110VLL 60Hz NE 1 Relay		
PR10-P41221000000	PhR 3P3W 110VLL 60Hz ND 1 Relay		
PR10-P42111000000	PhR 3P3W 240VLL 50Hz NE 1 Relay		
PR10-P42121000000	PhR 3P3W 240VLL 50Hz ND 1 Relay		
PR10-P42211000000	PhR 3P3W 240VLL 60Hz NE 1 Relay		
PR10-P42221000000	PhR 3P3W 240VLL 60Hz ND 1 Relay		
PR10-P43111000000	PhR 3P3W 415VLL 50Hz NE 1 Relay	3Ø3W	
PR10-P43121000000	PhR 3P3W 415VLL 50Hz ND 1 Relay		
PR10-P43211000000	PhR 3P3W 415VLL 60Hz NE 1 Relay		
PR10-P43221000000	PhR 3P3W 415VLL 60Hz ND 1 Relay		
PR10-P44111000000	PhR 3P3W 440VLL 50Hz NE 1 Relay		
PR10-P44121000000	PhR 3P3W 440VLL 50Hz ND 1 Relay		
PR10-P44211000000	PhR 3P3W 440VLL 60Hz NE 1 Relay		
PR10-P44221000000	PhR 3P3W 440VLL 60Hz ND 1 Relay		
PR10-P51111000000	PhR 3P4W 110VLL 50Hz NE 1 Relay	1 Relay	930
PR10-P51121000000	PhR 3P4W 110VLL 50Hz ND 1 Relay		
PR10-P51211000000	PhR 3P4W 110VLL 60Hz NE 1 Relay		
PR10-P51221000000	PhR 3P4W 110VLL 60Hz ND 1 Relay		
PR10-P52111000000	PhR 3P4W 240VLL 50Hz NE 1 Relay		
PR10-P52121000000	PhR 3P4W 240VLL 50Hz ND 1 Relay		
PR10-P52211000000	PhR 3P4W 240VLL 60Hz NE 1 Relay		
PR10-P52221000000	PhR 3P4W 240VLL 60Hz ND 1 Relay		
PR10-P53111000000	PhR 3P4W 415VLL 50Hz NE 1 Relay	3Ø4W	
PR10-P53121000000	PhR 3P4W 415VLL 50Hz ND 1 Relay		
PR10-P53211000000	PhR 3P4W 415VLL 60Hz NE 1 Relay		
PR10-P53221000000	PhR 3P4W 415VLL 60Hz ND 1 Relay		
PR10-P54111000000	PhR 3P4W 440VLL 50Hz NE 1 Relay		
PR10-P54121000000	PhR 3P4W 440VLL 50Hz ND 1 Relay		
PR10-P54211000000	PhR 3P4W 440VLL 60Hz NE 1 Relay		
PR10-P54221000000	PhR 3P4W 440VLL 60Hz ND 1 Relay		
Current Relay - Rish Relay AR			
PR10-A100112000000	AR 1P NE 1 Relay 60-300U	1 Relay	1,660
PR10-A100122000000	AR 1P NE 2 Relay 60-300U	2 Relay	1,815
PR10-A100212000000	AR 1P ND 1 Relay 60-300U	1 Relay	1,660
PR10-A100222000000	AR 1P ND 2 Relay 60-300U	2 Relay	1,815
PR10-A300112000000	AR 3P NE 1 Relay 60-300U	1 Relay	1,815
PR10-A300122000000	AR 3P NE 2 Relay 60-300U	2 Relay	1,970
PR10-A300122000000	AR 3P ND 1 Relay 60-300U	1 Relay	1,815
PR10-A300122000000	AR 3P ND 1 Relay 60-300U	2 Relay	1,970
Note - Aux supply 185-415 will be available on request (Rish Relay AR)			
Voltage Relay - Rish Relay VR			
PR10-V150110000000	VR 1P 58-138VLN NE 1 Relay	1 Relay	1,195
PR10-V150120000000	VR 1P 58-138VLN NE 2 Relay	2 Relay	1,355
PR10-V180110000000	VR 1P 220-254VLN NE 1 RELAY	1 Relay	1,195
PR10-V180120000000	VR 1P 220-254VLN NE 2 RELAY	2 Relay	1,355
PR10-V310110000000	VR 3P 110-240VLL NE 1 RELAY	1 Relay	1,355
PR10-V310120000000	VR 3P 110-240VLL NE 2 RELAY	2 Relay	1,505
PR10-V360110000000	VR 3P 415-480VLL NE 1 Relay	1 Relay	1,355
PR10-V360120000000	VR 3P 415-480VLL NE 2 Relay	2 Relay	1,505
PR10-V370110000000	VR 3P 381-415VLL NE 1 RELAY	1 Relay	1,355
PR10-V370120000000	VR 3P 381-415VLL NE 2 RELAY	2 Relay	1,505
Note NE - Normally Energized ND - Normally Denergized			
Earth Leakage Relay - Rish ELPR			
ELR2-XXMBZ00000000	ELR2 SMART NO ADDITIONAL OUTPUT 60 - 300 AC / DC		1,695
ELR2-XXLBZ00000000	ELR2 SMART NO ADDITIONAL OUTPUT 20 - 60 DC / 20 - 40 AC		
ELR2-XXMBR00000000	ELR2 SMART WITH ALARM RELAY 60 - 300 AC / DC		1,995
ELR2-XXLBR00000000	ELR2 SMART WITH ALARM RELAY 20 - 60 DC / 20 - 40 AC		
ELR2-XXMAR00000000	ELR2 SMART+ WITH 1 NO RELAY 60 - 300 AC / DC		2,195
ELR2-XXLAR00000000	ELR2 SMART+ WITH 1 NO RELAY 20 - 60 DC / 20 - 40 AC		



Protection and Monitoring Relays



Advance Digital Monitoring Relay

KMAT	Model	Description	Auxiliary Supply	LP (INR)	
TR10	RISH Relay - I	Prog. 1PH Current 1-5A 1CO+1CO	60-300V AC/DC or 20-60V DC / 20-40V AC	3,040	
		Prog. 1PH Current 1-5A 2CO		2,985	
		Prog. 1PH Current 1-5A 1CO		3,085	
		Prog. 3PH Current 1-5A 1CO+1CO		3,030	
		Prog. 3PH Current 1-5A 2CO		2,775	
	RISH Relay V/Hz	Prog. 1PH & 3PH V 100-600V L-L 1CO+1CO		2,720	
		Prog. 1PH & 3PH V 100-600V L-L 2CO		2,265	
		Prog. 1PH & 3PH VOLT 100-600V L-L 1CO		2,210	
		Prog. 1PH & 3PH VOLT 100-600V L-L 2CO		2,710	
		Prog. 1PH & 3PH VOLT 100-600V L-L 1CO		2,655	
ELR1	RISH ELR (Din)	ELR SINGLE CBCT 1CO+1CO	60-300V AC/DC or 20-60V DC / 20-40V AC	2,710	
		ELR SINGLE CBCT 2CO		2,655	
		ELR SINGLE CBCT 1CO		3,695	
	RISH ELR+(Din)	ELR+ Dual CBCT 1CO+1CO		4,035	
	RISH ELR VI(NE) (Din)	ELR VI(NE) CBCT+E to N V+I 1CO+1CO		3,990	
	RISH ELR VI (Din)	ELR VI CBCT+V+I 1CO+1CO		2,655	
		ELR SINGLE CBCT 1CO		2,710	
		RISH ELR (96x96mm)		ELR SINGLE CBCT 1CO+1CO	2,710
		ELR SINGLE CBCT 2CO		3,695	
		RISH ELR+ (96x96mm)		ELR+ DUAL CBCT 1CO+1CO	3,990
RISH ELR VI (96x96mm)		ELR VI CBCT+V+I 1CO+1CO	4,035		
RISH ELR VI (NE) (96x96mm)		ELR VI(NE) CBCT+E to N V+I 1CO+1CO	965		
CB01		TW-E CBCT 73/30 (50) 30mA-30A 600:1		1,350	
CB02		TW-E CBCT 95/50 (40) 30mA-30A 600:1		1,525	
CB03	RISH CBCT	TW-E CBCT 135/85 (30) 30mA-30A 600:1		1,650	
CB04		TW-E CBCT 165/130 (30) 30mA-30A 600:1		2,390	
CB05		TW-E CBCT 260/200 (20) 30mA-30A 600:1		780	
CB08	RISH CBCT 38	CBCT 38/71/20 30MA-30A 600:1		950	
CB09	RISH CBCT 57	CBCT 57/97/20 30MA-30A 600:1		1,200	
CB10	RISH CBCT 70	CBCT 70/109/20 30MA-30A 600:1		2,500	
CB11	RISH CBCT 120	CBCT 120/153/20 30MA-30A 600:1		3,400	
CB12	RISH CBCT 210	CBCT 210/250/20 30MA-30A 600:1			

Note - Kindly contact nearest sales office for 310mm tape wound CBCT, it is available on request

Optional Accessory

SPAR-SD00-022 : PRKAB FOR RELAY (MICRO USB TO USB CABLE)	1,260
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Rishabh Instruments Ltd.

Protection and Monitoring Relays



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	1,240
	252 - PAO	Single Phase Over Current		1,240
LA31	253 - PAD	Single Phase Combined Under/Over Current		2,445
	253 - PAV	Three Phase Under Current		2,950
	253 - PAP	Three Phase Over Current		2,950

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	1,630
	252 - PVO	Single Phase Over Voltage		1,630
LK31	253 - PVB	Single Phase Combined Under/Over Voltage.		2,445
LK21	252 - PVV	3 Phase 4 Wire Under Voltage		1,630
	252 - PVP	3 Phase 4 Wire Over Voltage		
LK31	253 - PVE	3 Phase 4 Wire Combined Under/Over Voltage		2,445
LK21	252 - PVK	3 Phase 3 Wire Under Voltage	1,630	
	252 - PVA	3 Phase 3 Wire Over Voltage		
LK31	253 - PVM	3 Phase 3 Wire Combined Under/Over Voltage	2,445	

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	1,630
	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	1,430
	252 - PHO	Over Frequency		
LF31	253 - PHD	Combined Under/Over Frequency	2,445	

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	4,925
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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	1,130

Protection and Monitoring Relays



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	1,365
	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	2,635
	256 - PLD	1 Generator with 'DEAD BUS' facility		3,300
Phase Balance Relay Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V				
LB21	252 - PSF	Phase loss and Unbalance	Self Powered	1,365
	252 - PSG	Phase loss Unbalance and Under Voltage.		1,790
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	2,850
	256 - PAT	3 Phase 3 Wire.		2,905
	256 - PAQ	Single Phase or 3 Phase 4 Wire with test push button.		4,820
	256 - PAR	3 Phase 3 Wire with test push button.		
DC Voltage Relay DC Voltage -18 to 20 or 20 to 32Vdc				
LD21	252 - PDU	DC Under Voltage with external time delay	Self Powered	1,790
	252 - PDO	DC Over Voltage with external time delay		1,940
	253 - PDE	DC Under Voltage with external differential		1,630
DC Milivolt Relay Input-50/60/75/100/150mV (Span- Min. 10mV)				
LM21	252 - PBS	DC Milivolt Low Trip	AC : 120 / 240V	2,240
	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 voltage - 1 to 50V				
LX21	252 - PBA	Low Trip	AC : 120 / 240V	1,995
	252 - PBB	High Trip		
LX31	253 - PBV	Combined High/Low		3,960
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	2,140
Earth Fault Relay Input - 1A / 5A				
LE31	253 - EFR	Earth Fault Relay	AC : 230V	2,575

Battery Chargers & Power Supplies



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	2,940
BC03-1F00000000000	1P Elite 7212A		24 V DC	72 W	3,205
BC03-1G00000000000	1P Elite 7224A		24 V DC		
BC03-1A00000000000	1P Elite 12012A		12 V DC		
BC03-1B00000000000	1P Elite 12024A		24 V DC	120 W	3,310
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			
RF14-1M00000000000	1P FLEX - e 1512A		12 V DC	1.25 A	15 W	1,535	
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	1,705	
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	1,860	
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	1,950	
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	2,545	
RF14-1C00000000000	RISH FLEX - e 17024A			7.5 A	120 to 180 W	2,680	
Two Phase - Metal Housing							
RF14-2I00000000000	RISH FLEX - e 9024B	230V AC / 400V AC	24 V DC	5 A	95 to 120 W	3,555	
RF14-2J00000000000	RISH FLEX - e 17024B			7.5 A	120 to 180 W	3,720	
RISH FLEX SERIES							
Single Phase - Metal Housing							
RF13-1T00000000000	RISH FLEX 6005A	115 V AC/ 230V AC	5 V DC	5 A	35 W		
RF13-1S00000000000	RISH FLEX 6012A		12 V DC	6 A	72 W	2,355	
RF13-1A00000000000	RISH FLEX 6024A		24 V DC	3 A			
RF13-1Y00000000000	RISH FLEX 9012A		12 V DC	10 A	120 W	3,400	
RF13-1B00000000000	RISH FLEX 9024A		24 V DC	5 A		3,665	
RF13-1200000000000	RISH FLEX 15012A		12 V DC	12.5 A			
RF13-1300000000000	RISH FLEX 15024A		24 V DC	6.25 A	150 W	3,595	
RF13-1400000000000	RISH FLEX 15048A		48 V DC	3.13 A			
RF13-1R00000000000	RISH FLEX 17012A		12 V DC	14 A		3,775	
RF13-1C00000000000	RISH FLEX 17024A		24 V DC	7.5 A	180 W		
RF13-1F00000000000	RISH FLEX 17048A		48 V DC	3.75 A		4,375	
RF13-1Z00000000000	RISH FLEX 24024A		24 V DC	10 A	240 W	6,395	
RF13-1P00000000000	RISH FLEX 28012A		12 V DC	16 A		7,105	
RF13-1D00000000000	RISH FLEX 28024A		24 V DC	14 A	336 W	7,105	
RF13-1G00000000000	RISH FLEX 28048A		48 V DC	7 A		7,105	
RF13-1I00000000000	RISH FLEX 48024A		24 V DC	20 A	480 W	7,870	
RF13-1E00000000000	RISH FLEX 50024A		24 V DC	25 A	600 W	8,745	
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	4,485
RF13-2J00000000000	RISH FLEX 17024B				7.5 A	180 W	4,595
RF13-2K00000000000	RISH FLEX 28024B	14 A			336 W	7,650	
Three Phase - Metal Housing							
RF13-3L00000000000	RISH FLEX 50024B	400 – 500 V AC	24 V DC	25 A	600 W	9,730	
RF13-3M00000000000	RISH PST 2430B	400 – 480 V AC		30 A	720 W	20,810	
RF13-3N00000000000	RISH PST 2440B			40 A	960 W	25,025	
Redundancy Module							
RF13-00M00000000000	RISH MR220	10 – 60 V DC	10 – 60 V DC	0 – 25 A (max)	----	2,135	

Product End-Of-Life



KMAT	Model	Description	Auxiliary Supply	LP (INR)	Time line
Multi-Function Transducer					
PR43	RISH CON M	Type : Multi-transducer (TRMS) Input : 100 or 400V L-L 1 or 5A (To be selected while ordering only) Output : 0 / 2 / 4 Analog -20...0...20mA & 0 / 2 / 4 Relay (M-04 M-22 M-40) Communication Port : MODBUS RS 485 & USB Accuracy Class : 0.5	85...253 VAC / 90...320 VDC or 20...40VAC / 20...60 VDC	16,150	April'24
PM11	RISH DUCER M00	Type : Multi-transducer Input : 100 to 693V L-L 1 to 6A (Configurable) Communication Port : RS 232 & LONBUS (LonWorks) Accuracy Class : 0.2 for Voltage & Current Class : 0.15 for Frequency Class : 0.25 for Power & Power Factor	24...60 or 85...230VAC/DC	25,245	April'24
Temperature Controller					
TC41 (Old Housing)	RE56 - 48 x 48 x 87.35 mm	Input: RTD Sensors: PT100 Thermocouple Sensors: J T K S R Output: 1x SSR driving & 1x Relay Output; Accuracy Class as per Datasheet;	60 ... 280 V AC/DC	1,400	April'24
Multi-Function Meter					
DL10**	RISH DELTA VAF	Input : 100...500 V L-L 1 / 5A 3 Line LED Display 4 Digit Single Ph & 3Ph 3W/4W Network Accuracy Class : 1 Parameters : VAF + RH + OH + NI + MM + RPM	40 - 300V AC/DC or 12- 48 V DC	2,315	June'24
DL20	RISH DELTA POWER	Input : 100...500 V L-L 1 / 5A 3 Line LED Display Single Ph & 3Ph 3W/4W Network Accuracy Class : 1 Parameters : VAF + kW + kVAr + kVA + PF + PA + RH + OH + NI + MM + RPM	40 - 300V AC/DC or 12- 48 V DC	3,485	June'24
DL30**	RISH DELTA ENERGY	Input : 100...500 V L-L 1 / 5A 3 Line LED Display Single Ph & 3Ph 3W/4W Network Accuracy Class : 1 Parameters : VAF + kW + kVAr + kVA + kWh + kVArh + kVAh + PF + PA + RH + OH + NI + MM + RPM + DM + MD	40 - 300V AC/DC or 12- 48 V DC	5,995	April'24

**Note - Kindly contact nearest sales office in case of UL certification is required.

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 approvals mentioned in the price list are on generic level, kindly contact to our nearest sales office for product-wise approvals details



RISHABH

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