



Empowering with Sustainability Smart Solutions

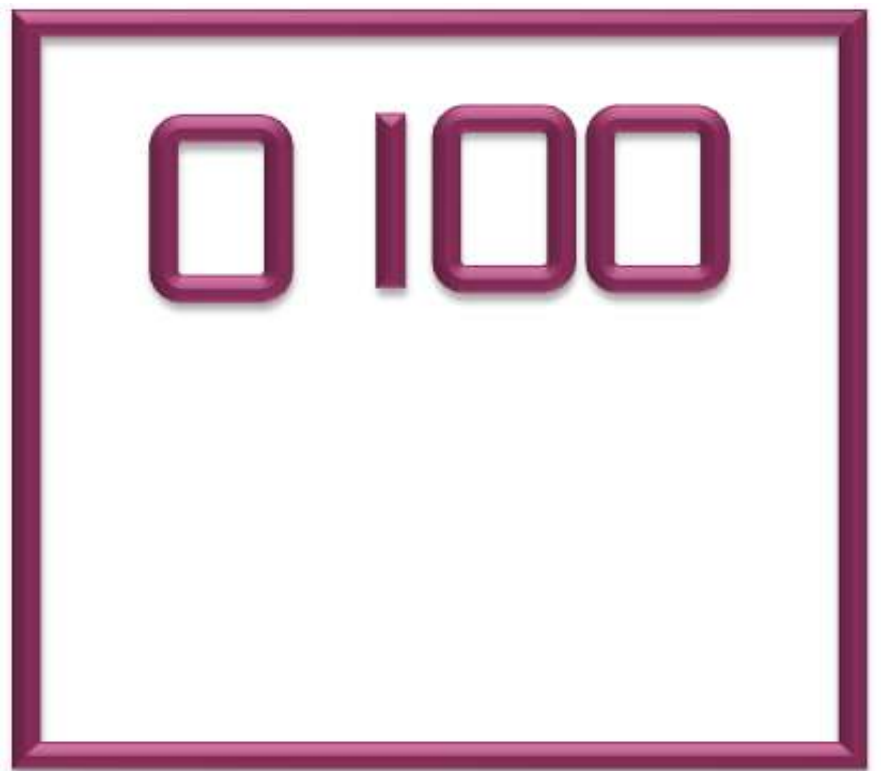
Digital Expertise

Rishabh Instruments Limited

Price List w.e.f. January 2025

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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) 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	930
			Input 1A /5A (Programmable) Display : 14 mm LED Display 3Ph 3W/4W Network Accuracy Class : 1.0 4 Digit		1,545
		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		1,705
ED99		96 x 96 x 40 mm	Input : 1A /5A (Programmable) 1 Phase Network Accuracy Class : 1 4 Digit	60...300V AC/DC	750
			Input : 1A /5A (Programmable) 3Ph 3W/4W Network Accuracy Class : 1 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) 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	930
			Input : 100- 500 V L-L (Programmable) Display : 14 mm LED Display 3Ph 3W/4W Network Accuracy Class : 1.0 4 Digit		1,545
ED99		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	750
			Input : 100- 500 V L-L (Programmable) 3Ph 3W/4W Network Accuracy Class : 1 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) Display : 26 mm LED Display Single Phase Network Accuracy Class : 1 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 (To be specified while ordering only) Display : 26 mm LED Display Single Phase Network Accuracy Class : 1 4 1/2 Digit	110 / 230V AC	4,265
				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



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	1,395
Non - Programmable DC Ammeter					
DD14	RISH ADC B	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	2,355
				24 / 110 V DC / 220V DC	3,075
		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	2,495
				24 / 110 V DC / 220V DC	3,180
		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	4,680
				24 / 110 V DC / 220V DC	5,495
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	1,395
Non - Programmable DC Voltmeters					
DD14	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	2,425
				24 / 110 V DC / 220V DC	3,160
	RISH VDC F	48 x 96 x 138 mm	Input : 0 - 2 / 20 / 200 / 500 / 1000V Display : 14 mm LED Display Accuracy Class : 0.1 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 Display : 14 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	2,535
				24 / 110 V DC / 220V DC	3,280
	RISH VDC F	96 x 96 x 55 mm	Input : 0 - 2 / 20 / 200 / 500 / 1000V Display : 14 mm LED Display Accuracy Class : 0.1 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 Display : 26 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	4,635
				24 / 110 V DC / 220V DC	5,435
	RISH VDC F	72 x 144 x 94 mm	Input : 0 - 2 / 20 / 200 / 500 / 1000V Display : 26 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	4,635
				24 / 110 V DC / 220V DC	5,435



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	12 - 48VDC 100 - 250 VAC/DC	4,475
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	6,030
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	12 - 48VDC 100 - 250 VAC/DC	4,675
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	6,200
Frequency DPM					
		48 x 96 x 68 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	1,525
DH10	RISH DPM Hz	96 x 96 x 55 mm			
		72 x 144 x 94 mm			3,945



Multi-Function Meters



KMAT	Model	Description	Auxiliary Supply	LP (INR)
LED Meters				
Basic Range				
AV00	RISH CD30			1,425
	RISH CD60	Input : 57.7...300 V L-N 30A or 60A 2 Line LED Display 4Digit Single Phase Network		1,470
	RISH CD30 - with RS485	Accuracy Class : 0.5 Parameters : VAF + THD+ RH + OH + NI + MM + RPM		2,310
	RISH CD60 - with RS 485		60 - 280V AC/DC or 20 - 60 V AC/DC	2,355
	RISH CR12	Input : 100...500 V L-L 100mA 2 Line LED Display 4Digit Single Ph & 3Ph 3W/4W Network		1,425
	RISH CR12 - with RS485 + 1 Relay	Accuracy Class : 0.5 Parameters : VAF + THD+ RH + OH + NI + MM + RPM		2,465
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	1,730
DE10 	RISH DELTA VAF NX Basic			1,875
	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	2,600
	RISH DELTA VAF NX Basic + 1 Relay	Accuracy Class : 0.5 Parameters : VAF + RH + OH + NI + MM + RPM + PF		2,395
	RISH DELTA VAF NX Basic + RS485 + 1Relay			2,915
DE20 	RISH DELTA POWER NX Basic			2,445
	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	3,175
	RISH DELTA POWER NX Basic + 1 Relay	Accuracy Class : 1 Parameters : VAF + kW + kVA + kVAh + PF + PA + RH + OH + NI + MM + RPM + DM + MD + NC		2,965
	RISH DELTA POWER NX Basic + RS485 + 1Relay			3,485
DE30 	RISH DELTA ENERGY NX Basic	Input : 100...500 V L-L 1 / 5A 3 Line LED Display Single Ph & 3Ph 3W/4W Network Accuracy Class : 1, as per 62053-21	60 - 300V AC/DC or 20 - 60 V AC/DC	4,320
	RISH DELTA ENERGY NX Basic + RS485 + 1Relay	Parameters : VAF + kW + kVA + kVAh + kWh + kVAh + PF + PA + RH + OH + NI + MM + RPM + DM + MD + THD + NC		5,360
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	4,905
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		6,155
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	60...300V AC/DC or 12 - 70 VDC	8,590
	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		12,015
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	4,160



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Multi-Function Meters



KMAT	Model	Description	Auxiliary Supply	LP (INR)
LED Meters - Advance Range				
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 + 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 For meter with Ethernet port the aux. supply will be 65...300V AC/DC	9,625
MA4S - Class 0.2s		Input : On site Programmable - Voltage - 100 - 600 VL-L, Current - 1/5A 3Ph 3W/4W Network Accuracy Class : 1 Parameters : VAF + kW + kVA + kWh + kVAh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD		10,475
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		3,075
	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		3,725
WH0P	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 + kWh + kVAh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD	60...300VAC/DC or 20...40VAC or 20...60VDC	5,605
	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 + kWh + kVAh + 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 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 + 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	9,010
		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 + kWh + kVAh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + RPM + IH		10,055
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 + kWh + kVAh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + RPM + IH	100-550V AC/DC or 12-60V AC/DC	8,870



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 + kVA + kVAh + kWh + 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 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 + kVA + kVAh + kWh + kVAh + PF + DPF + PA + RH + OH + NI + MM + NC + THD + RPM + IH + TAR + UB		On Request
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, 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 + kVA + kVAh + kWh + 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 Big LCD Display 3Ph 3W/4W Network Accuracy Class : 0.2S, Ethernet Interface (BACnet 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 + kVA + kVAh + kWh + kVAh + PF + DPF + PA + RH + OH + NI + MM + NC + THD + RPM + IH + TAR + UB		On Request
	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 + kVA + kVAh + kWh + kVAh + PF + PA + RH + OH + NI + MM + DM + MD + NC + THD + RPM + IH + RCM + TAR + 3HL	100-550V AC/DC	17,490
MLM1	MultiLoad Monitor RISH ML 1410 (Class 0.5s)	RS485 (Modbus RTU) - 2 Relay		18,955
		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
	Optional Modules	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



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Multi-Function Meters



KMAT	Model	Description	Auxiliary Supply	LP (INR)
Touch Screen Meters				
MA4I MA4S - Class 0.2s	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	12,785
		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		13,450
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 - 2 Pulse Output		20,720
		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	22,965
		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)		26,500
Power Quality Monitor (Touch Screen)				
PA00	RISH PQM	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	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 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	20,340
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	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 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	7,420
		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	6,680



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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

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	60...300VAC/DC or 24...60VAC/DC	3,975
	RISH CON V	Type : Voltage (TRMS) Input : 57...500V Output : 0...20mA / 4...20mA OR 0...10V Accuracy Class : 0.2		
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		4,420
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		8,515
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*	15,550
		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		16,175
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	24...60 or 85...230VAC/DC	20,485
	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		26,660
	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		26,180
	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		27,520
	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		31,995

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

KMAT	Model	Description	Auxiliary Supply	LP (INR)
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	40...300VAC/DC or 24...60VAC/DC	2,730
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		3,640
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		2,730
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		3,640
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	3,995
	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	2,445
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		RISH CON V, RISH CON I, RISH CON Hz, RISH CON P		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



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

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	2,290
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		3,435
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	4,005
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	2,270
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		3,405
	TV 808	Type : DC Isolator 1 Input-1 Output (\$17 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 \$17Housing, Class 0.5 for E8 Housing		2,860
TV 08	TV 808	Type : DC Isolator 1 Input-2 Output (\$17 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 \$17Housing, Class 0.5 for E8 Housing	24...60V AC/DC or 85 ...230V AC/DC	4,010
	TV 808	Type : DC Isolator 2 Input-2 Output (\$17 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 \$17 Housing		4,590

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		5,270
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	6,310
	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		5,795
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	8,880
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	6,495
		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		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			
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)			



Protection and Monitoring Relays



Analog Protection Relay

KMAT	Model	Description	Network	LP (INR)
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Phase Failure Relay

PR10	Rish Relay PHR	Input- 110V L-L / 240V L-L / 415V L-L / 440V L-L, 50Hz/60Hz, 1 Relay Relay Configuration - NE/ND	3P3W or 3P4W	990
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Current Relay

PR10	Rish Relay AR	Input-1A to 5A, 50Hz,60Hz, 1 Relay Relay Configuration - NE/ND Auxiliary Supply - 60 - 300V AC/DC	1PH 3PH	1,760 1,925
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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 Relay Configuration - NE/ND	1PH	1,270
		Input- 10-240VLL / 381-415VLL / 415-480VLL, 50Hz/60Hz, 1 Relay Relay Configuration - NE/ND	3PH	1,440

Optional Accessories

2 Relay	For Rish Relay AR , VR			170
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Note-
NE - Normally Energized
ND - Normally Dennergized

KMAT	Model	Description	Auxiliary Supply	LP (INR)
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Earth Leakage Relay - Rish ELPR

ELR2	RISH ELPR	Smart Without Relay Output	60 - 300 AC / DC or	1,765
		Smart With Alarm Relay Output	20 - 60 DC / 20 - 40 AC	2,075
		Smart+ With 1 Relay Output		2,285

Advance Digital Monitoring Relay

KMAT	Model	Description	Auxiliary Supply	LP (INR)
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TR10	Rish Relay I	Prog. 1PH Current 1-5A 1CO	60-300V AC/DC or 20-60V DC / 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 (Din & 96x96mm)	ELR SINGLE CBCT 1CO		2,765
	RISH ELR+ (Din & 96x96mm)	ELR+ Dual CBCT 1CO+1CO		3,845
	RISH ELR VI(NE) (Din & 96x96mm)	ELR VI(NE) CBCT+E to N V+I 1CO+1CO		4,200
	RISH ELR VI (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

Rishabh Instruments Ltd.

Protection and Monitoring Relays

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	Price On Request
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	
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



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
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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	1,300
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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	1,570
	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



Battery Charger

Order Code	Model No	Input Voltage	Output Voltage	Power Range	LP (INR)
BC03-1D0000000000	1P Elite 3612A	115 V AC/ 230V AC	12 V DC	36 W	3,120
BC03-1F0000000000	1P Elite 7212A		24 V DC	72 W	3,400
BC03-1G0000000000	1P Elite 7224A		24 V DC	120 W	3,510
BC03-1A0000000000	1P Elite 12012A		12 V DC		
BC03-1B0000000000	1P Elite 12024A		24 V DC		
BC03-1E0000000000	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						
RF14-1N0000000000	1P FLEX - e 1515A	115 V AC/ 230V AC	15 V DC	1.0 A	15 W	1,630
RF14-1M0000000000	1P FLEX - e 1512A		12 V DC	1.25 A		
RF14-1P0000000000	1P FLEX - e 1524A		24 V DC	0.63 A	30 W	1,810
RF14-1S0000000000	1P FLEX - e 3012A		12 V DC	3.0 A		
RF14-1K0000000000	1P FLEX - e 3024A		24 V DC	1.5 A	45 W	1,975
RF14-1R0000000000	1P FLEX - e 4512A		12 V DC	3.75 A		
RF14-1L0000000000	1P FLEX - e 4524A		24 V DC	1.75 A	60 W	2,070
RF14-1Q0000000000	1P FLEX - e 6012A		12 V DC	5.0A		
RF14-1A0000000000	1P FLEX - e 6024A		24 V DC	2.5 A		
Single Phase - Metal Housing						
RF14-1B0000000000	RISH FLEX - e 9024A	115 V AC/ 230V AC	24 V DC	5 A	95 to 120 W	2,700
RF14-1C0000000000	RISH FLEX - e 17024A			7.5 A	120 to 180 W	2,845
Two Phase - Metal Housing						
RF14-2I0000000000	RISH FLEX - e 9024B	230V AC / 400V AC	24 V DC	5 A	95 to 120 W	3,770
RF14-2J0000000000	RISH FLEX - e 17024B			7.5 A	120 to 180 W	3,945
RISH FLEX SERIES						
Single Phase - Metal Housing						
RF13-1T0000000000	RISH FLEX 6005A	115 V AC/ 230V AC	5 V DC	5 A	35 W	2,500
RF13-1S0000000000	RISH FLEX 6012A		12 V DC	6 A	72 W	
RF13-1A0000000000	RISH FLEX 6024A		24 V DC	3 A	120 W	3,605
RF13-1Y0000000000	RISH FLEX 9012A		12 V DC	10 A		
RF13-1B0000000000	RISH FLEX 9024A		24 V DC	5 A	150 W	3,885
RF13-120000000000	RISH FLEX 15012A		12 V DC	12.5 A		
RF13-130000000000	RISH FLEX 15024A		24 V DC	6.25 A	180 W	3,815
RF13-140000000000	RISH FLEX 15048A		48 V DC	3.13 A		
RF13-1R0000000000	RISH FLEX 17012A		12 V DC	14 A	240 W	4,005
RF13-1C0000000000	RISH FLEX 17024A		24 V DC	7.5 A		
RF13-1F0000000000	RISH FLEX 17048A		48 V DC	3.75 A	336 W	4,640
RF13-1Z0000000000	RISH FLEX 24024A		24 V DC	10 A		
RF13-1P0000000000	RISH FLEX 28012A		12 V DC	16 A	480 W	7,535
RF13-1D0000000000	RISH FLEX 28024A		24 V DC	14 A		
RF13-1G0000000000	RISH FLEX 28048A		48 V DC	7 A	600 W	7,535
RF13-1I0000000000	RISH FLEX 48024A		24 V DC	20 A		
RF13-1E0000000000	RISH FLEX 50024A		24 V DC	25 A	480 W	8,345
RF13-1H0000000000	RISH FLEX 50048A		48 V DC	12 A		
Two Phase - Metal Housing						
RF13-2I0000000000	RISH FLEX 9024B	230V/ 400V/ 500 V AC	24 V DC	5 A	120 W	4,755
RF13-2J0000000000	RISH FLEX 17024B			7.5 A	180 W	4,875
RF13-2K0000000000	RISH FLEX 28024B			14 A	336 W	8,110
Three Phase - Metal Housing						
RF13-3L0000000000	RISH FLEX 50024B	400 – 500 V AC	24 V DC	25 A	600 W	10,315
RF13-3M0000000000	RISH PST 2430B	400 – 480 V AC		30 A	720 W	22,060
RF13-3N0000000000	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

KMAT	Model	Description	Auxiliary Supply	Timeline
Digital Panel Meter				
Programmable AC Ammeter				
EP99	RISH EINE I 96 x 96 x 40 mm	Input : 1A /5A (Programmable) 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	Apr'25
		Input 1A /5A (Programmable) Display : 14 mm LED Display 3Ph 3W/4W Network Accuracy Class : 1.0 4 Digit		
Programmable AC Voltmeter				
EP99	RISH EINE V 96 x 96 x 40 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	Apr'25
		Input : 100- 500 V L-L (Programmable) Display : 14 mm LED Display 3Ph 3W/4W Network Accuracy Class : 1.0 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				
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 + kVAr + kVA + kWh + 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	Apr'25
		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 + kVAh + PF + PA + MM + NC + THD		
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 + 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	Apr'25
		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 + kVAh + PF + PA + MM + NC + THD		
Power Quality Analyzer (Touch Screen)				
PA10	RISH PQA	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	Jan'25
GSM Modules				
	SPAR-SD00-0707	GSM MODULE LM 13xx 0.5S		
	SPAR-SD00-0709	GSM MODULE EM 13xx		
	SPAR-SD00-0710	GSM MODULE EM 2340		
	SPAR-SD00-0708	GSM MODULE LM13xx 0.2S		Apr'25
	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.		

KMAT	Model	Description	Auxiliary Supply	Timeline
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	20...40 VAC / 20...60 VDC	July'25
PM11	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	24...60 or 85...230VAC/DC	July'25
Temperature Controller				
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	
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	Jan'25
	RE96 - 96 x 96 x 72.15 mm			
	RE77 - 48 x 96 x 72.15 mm			
*Extra Charges for TC40 – Output combination to be specified while ordering and maximum 2 outputs are possible.		1x Relay Output	-	
		2x SSR Outputs		
		2x Relay Outputs		
Genset Controllers				
GC10	AMF	GC10-A000000000000 - AUTOMATIC MAINS FAILURE		Jan'25
	ATS	GC10-AT000000000000 - 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



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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