

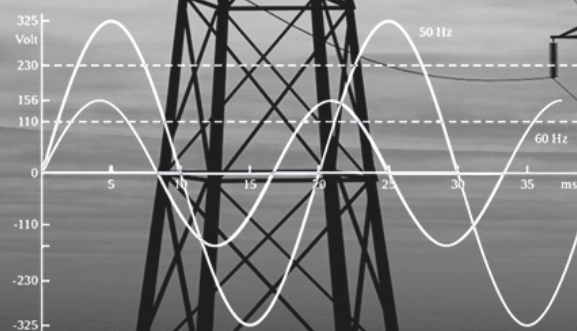
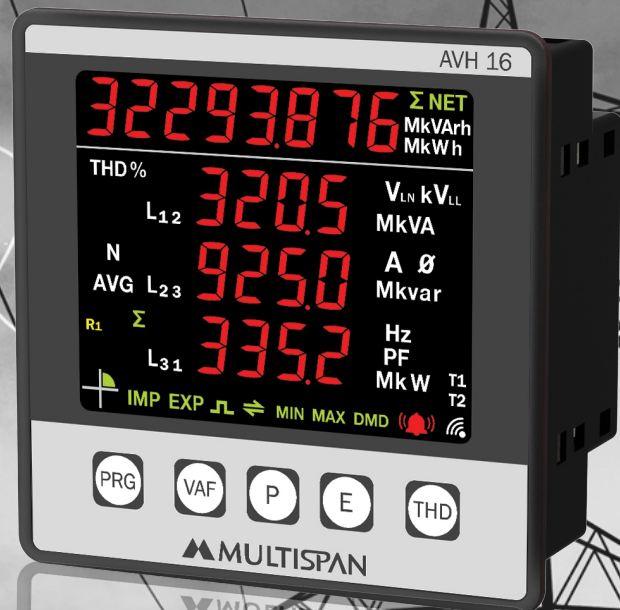
Johannesburg Branch

 MIMIC COMPONENTS

Cape Town Branch

 Mimic Cape

MULTISPAN



Energy Product Catalog

2023

User-friendly & accurate solutions

Multispan is a leading company involved in the development and production of PID Temperature Controllers , Power & Energy Meters, Protection Relays, Timers & Counters as well as customised solutions for various industrial applications. As an owner-managed family business, we employ about 300+ staff with 75+ domestic channel sales partner network in India plus product distribution in 25+ countries.

With marked customer orientation, consistently high quality and vast innovation capability, Multispan develops specific solutions for many industries and applications

Our focus

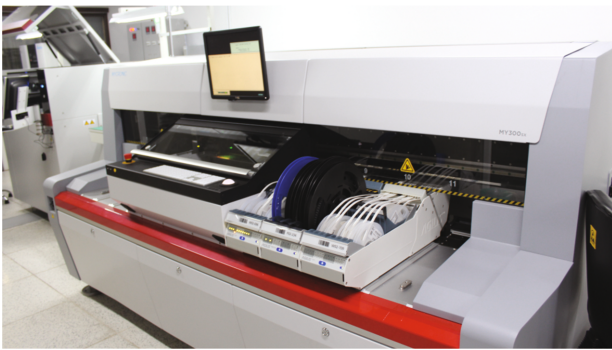
Provide user-friendly accurate solutions in a way it makes a difference for every industry





Infrastructure

Established in 1986, Multispan has grown significantly as a professionally managed organization. The company has a proven track record of performance & quality of its products till date. Over the years, Multispan has developed proficiency in product design, product development and product testing, with vertically integrated manufacturing facility, infrastructure and a cutting edge, 30 member strong R&D division, with over 3000 software applications, 200+ standard products and 100+ customized products.



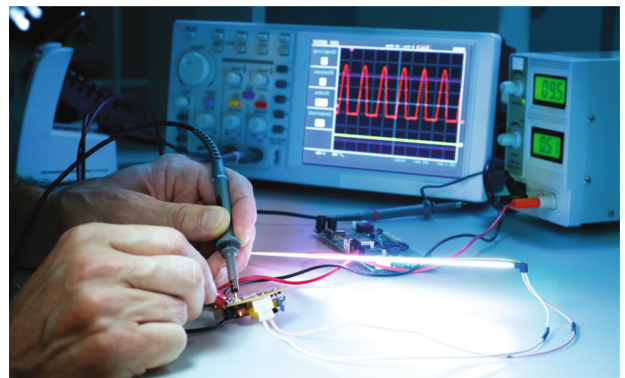
Electronic Assembly
Fully Integrated SMT Line



Plastic Enclosure Manufacturing
In-house Injection Moulding



Testing & Quality Control

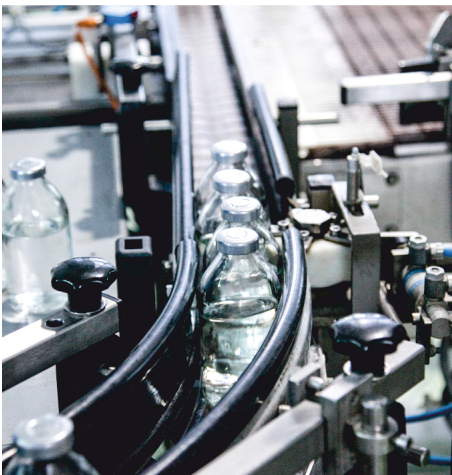


Reliability Laboratory



Applications

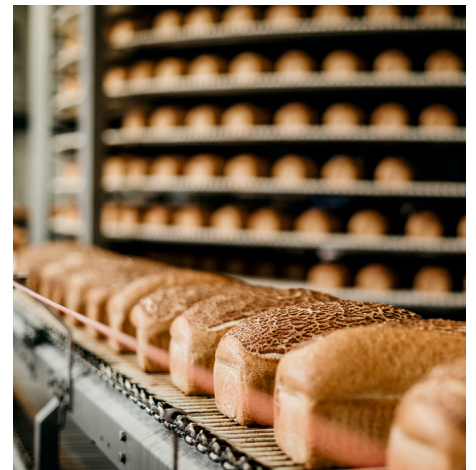
Our entire product range has varied industrial applications from complex ones like value controlling to maintain temperature for accurate plastic sealing of food containers to complex IIoT solutions for accurate energy measurement, till serving all kinds of industries



Pharmaceutical



Electrical Panel



Food Processing



Textile Industry



Packaging



Energy Measurement

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Protection Relays

Automatic Power Factor Controller

Intelligent PF Correction Relay



6 / 8 / 12 / 14 / 16 Steps

Model	APFC 9608	APFC 108	APFC 112
Dimension (HxWxD)mm	96 x 96 x 54	144 x 144 x 70	144 x 144 x 70
Panel Cutout mm	92 x 92	137 x 137	137 x 137
INPUT			
Current	10mA to 5Amp AC (Without CT) (CT Ratio Selectable 5/5A to 9995/5A) For Main CT & Capacitor CT	10mA to 5Amp AC (Without CT) (CT Ratio Selectable 5/5A AC to 9999/5A) For Main CT & Capacitor CT	
Controlling PF Range	+1.000 (Lag) To -1.000 (Lead)	+1.000 (Lag) To -1.000 (Lead)	
Min. Operation Current	Selectable Range 1mA to 500mA (By Default 30mA)	Selectable Range 1mA to 500mA (By Default 30mA)	
Input Voltage	30 to 320V AC (P-N) CAT III	300 to 520V AC (P-P) CAT III	
SENSING	Single CT Based Sensing True RMS, Scan Time 1Sec. to 999.9 Sec.	Scan Time 1 Sec. to 999.9 Sec.	
OUTPUT	NO-C 8 Relay for Capacitor Bank + 1 Alarm	NO-C 8 Relay for capacitor bank + 1 Alarm or 1 Fan Relay	NO-C 12 Relay for capacitor bank + 1 Alarm Relay 1 Fan Relay
USER PROGRAMM. FUNCTIONS	Set PF, Relay Switch ON Time, Control Modes, Mains Primary CT Ratio, Relay Steps to be used, Capacitor Primary CT Ratio (To be used if actual capacitor value is to be measured at any given time)	Main CT Ratio, Capacitor CT Ratio, Minimum Operating Current, Scan Time, Programmable KVAR Hysteresis, Capacitor bank sensing method	
Control Mode	KVAR/ Intel/ Manual	KVAR/ Intel/ Manual	
Accuracy	Class 0.5	Class 0.5	
Supply	100 to 270V AC	300 to 520V AC (P-P) CAT III	

Protection Relays

Earth Leakage Relay



Model	ELR-19N	ELR-63	EFR-63
Dimension (HxWxD)mm	96 x 96 x 54	76 x 28 x 85	76 x 28 x 85
Panel Cutout mm	92 x 92	Din Rail Mounting	Din Rail Mounting
INPUT	Input Signal	30mA to 30.0Amp AC Thru. External CBCT	Current : 5Amp From CBCT
	Range	30mA to 30A AC	10% to 100% of CT rating
OUTPUT	2 Relay (NO-C-NC) 5A, 230V AC Resistive Load	1 Relay (NO-C) 5A, 230V AC Resistive Load	1 Relay (5A, 230V AC Resistive Load) Earth Fault Current
Accuracy	Class 0.5		
Supply	100 to 270V AC/DC (SMPS), 50/60Hz		
Note	RS-485 Modbus is available in ELR-19N as per request, CBCT available as per required inner diameter		



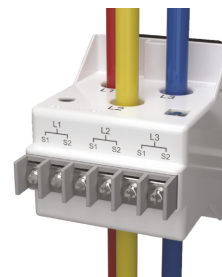
Model	ECT 35D - Inbuilt CBCT 35mm	ELR-35	ER-2K
Dimension (HxWxD)mm	90 x 22.5 x 72	90 x 35 x 61.5	90 x 35 x 61.5
Panel Cutout mm	Din Rail Mounting	Din Rail Mounting	Din Rail Mounting
INPUT	Range	30mA to 3A AC	30mA to 30A AC
OUTPUT	1 Relay (NO-C-NC) 5A, 230V AC Resistive Load	2 Relay, 1 st Relay (NO-C-NC) & 2 nd Relay (NO-C) 5A, 230V (Resistive Load)	1 Relay (NO-C-NC) 5A, 230V AC Resistive Load
Reset & Test	Front Test & Reset Facility	Front & External Test-Reset Facility	
Accuracy	Class 0.5	Class 0.5	
Supply	100 to 250V AC (SMPS), 50/60Hz	100 to 270V AC (SMPS), 50/60Hz	

Protection Relays

Protection Device - 3 Phase



DINRAIL
MOUNT



Model	MPD-192				
Dimension (HxWxD)mm	96 x 96 x 54				
Panel Cutout mm	92 x 92				
INPUT	Signal	3Ø4 Wire / 3Ø3 Wire			
	Voltage	50 - 520V AC (L-L), 30 - 300V AC (L-N)			
	Current	60mA to 5A (CT Selection 5A - 6000A AC) (Additional Leakage Current Measurement thru CBCT in MPD-19EL)			
OUTPUT	1st Relay (NO-C-NC) 10A, 230V AC (Resistive Load) 2nd Relay (NO-C) 5A (With Simultaneous Actuation)		1 Relay (NO-C-NC) 10A, 230V AC (Resistive Load)		
PARAMETER	Over Current	Under Current	Short Circuit	Lock Rotor Point	Earth Leakage (in MPD-19EL)
	Over Voltage	Under Voltage	Phase Sequence	Unbalance	Single Phase Preventor (SPP)
	Over Frequency	Under Frequency	Phase Loss	Neutral Loss	
Accuracy	Class 0.5				
Supply	100 to 270V AC (SMPS), 50/60Hz				
Note	MPD-192 is also available in 50 to 550V AC, 50Hz Power Supply (ON Request), RS-485 Modbus Communication Available on request Earth Leakage Features are Available (Optional) in MPD-19EL, CBCT Available As per Required inner Diameter External CT 30A, 60A, 100A, 125A Available As per Request				

Current Controller



Earth To Neutral Voltage



Model	CC-12	
Dimension (HxWxD)mm	96 x 96 x 43	
Panel Cutout mm	92 x 92	
INPUT	Current	5A AC Direct (CT Ratio Selectable 5/5A to 1600/5A)
OUTPUT	1 Relay (NO-C-NC) 5A, 230V AC (Resistive Load)	
Tripping Facility	High/ Low/ Inband/ Outband/ Absolute Low/ Absolute Outband Alarm (Configurable)	
Accuracy	Class 0.5	
Power Supply	100 to 270V AC (SMPS), 50/60Hz, Approx 4VA	
Note	RS-485 Modbus is available on request 2 Relay is available on request in CC-122	

Model	EN-19N	
Dimension (HxWxD)mm	96 x 96 x 54	
Panel Cutout mm	92 x 92	
INPUT	Voltage	0 to 10 Voltage AC
OUTPUT	1 Relay (NO-C-NC) 5A, 230V AC (Resistive Load)	
Parameter	Earth to Neutral Voltage Protection Relay	
Power Supply	100 to 270V AC (SMPS), 50/60Hz	
Note	RS-485 Modbus available on request	

Protection Relays

Voltage Protection Relay



Model	VMR-132				VMR-232
Dimension (HxWxD)mm	96 x 96 x 43				72 x 72 x 45
Panel Cutout mm	92 x 92				68 x 68
INPUT Voltage	50 to 520V AC (L-L), 30 to 300V AC (L-N)				
OUTPUT	1st Relay 5A, 230V AC (Resistive Load) 1st Relay 10A, 230V AC (Resistive Load) 2nd Relay (Optional)				
PARAMETER	Over Voltage Under Voltage	Over Frequency Under Frequency	Phase Loss Phase Sequence	Asymmetry Neutral Loss	
Supply	230V AC $\pm 20\%$, 50Hz				50 to 520V AC, 50/60Hz

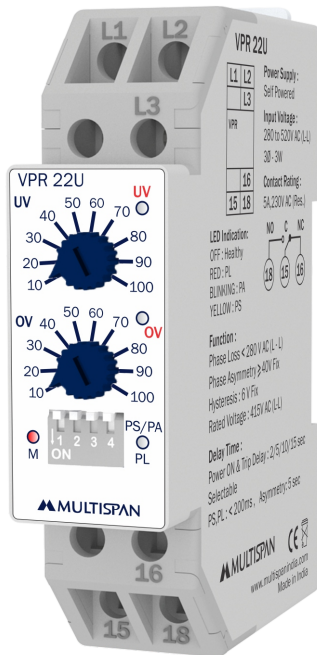


Model	VPR-35	VPR-33	VR-3K	VR-3KN
Dimension (HxWxD)mm	90 x 35 x 61.5	90 x 35 x 61.5	90 x 35 x 61.5	90 x 35 x 61.5
Mounting	Din Rail Mounting			
INPUT Signal	3Ø4 Wire / 3Ø3 Wire / 1Ø2 Wire	3Ø4 Wire / 3Ø3 Wire	3Ø3 Wire	3Ø4 Wire
INPUT Voltage	30 to 300V AC (L-N), 50 to 520V AC (L-L)	160 to 300V AC (L-N), 280 to 520V AC (L-L)	280 to 520V AC (L-L)	160 to 300V AC (L-N)
OUTPUT	2 Relay (NO-C-NC) 230V AC (Resistive Load)		1 Relay 2C/O 5A, 230V AC (Resistive Load)	1 Relay 2C/O 5A, 230V AC (Resistive Load)
PARAMETER	Over Voltage Under Voltage Over Frequency Under Frequency Phase Loss Phase Sequence Asymmetry & Neutral Loss		Over Voltage Under Voltage Phase Asymmetry Phase Loss Phase Sequence	Over Voltage Under Voltage Phase Asymmetry Phase Loss Phase Sequence Neutral Loss
Accuracy	Class 1.0		Class 1.0	
Supply	100 to 270V AC (SMPS)		No Power Supply to be given Separately	

Din Rail Protection Relays

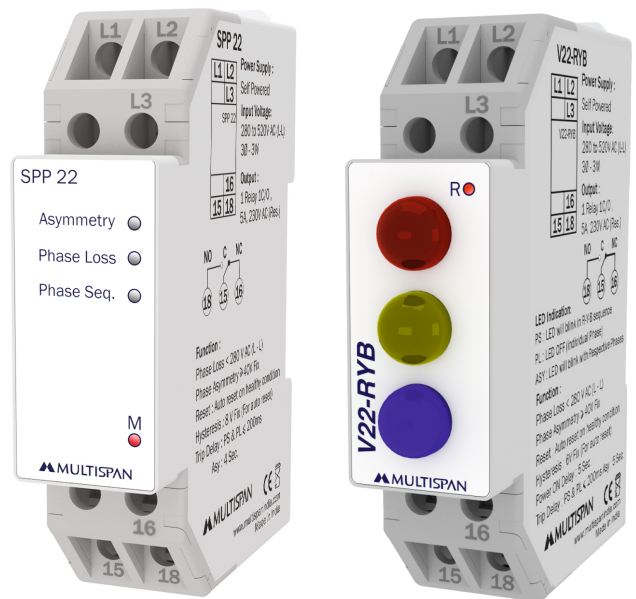
Voltage Protection Relay

DINRAIL
MOUNT

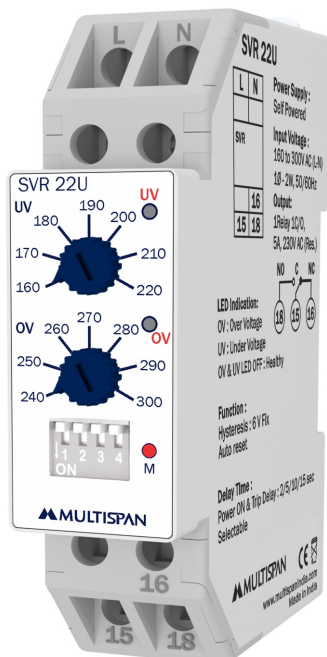


Model	VPR-22U Voltage Protection Relay
Dimension (HxWxD)mm	90 x 22.5 x 72
Mounting	Din Rail Mounting
INPUT	Input Voltage : 280 to 520V AC (L-L), 3Ø3 Wire
OUTPUT	1 Relay, 5A, 230V AC (Resistive Load)
TRIPPING PARAMETER	Under Voltage Over Voltage Phase Asymmetry Phase Sequence Phase Loss
POWER SUPPLY	NO Power Supply to be given separately
Note	Power ON Delay Time & Trip Delay Time by using DIP switch

Model	SPP-22 / V22-RYB Single Phase Preventor
Dimension (HxWxD)mm	90 x 22.5 x 66.5 / 90 x 22.5 x 70.5
Mounting	Din Rail Mounting
INPUT	Input Voltage : 280 to 520V AC (L-L), 3Ø3 Wire
OUTPUT	1 Relay 5A, 230V AC (Resistive Load)
TRIPPING PARAMETER	Phase Asymmetry Phase Sequence Phase Loss
POWER SUPPLY	NO Power Supply to be given separately



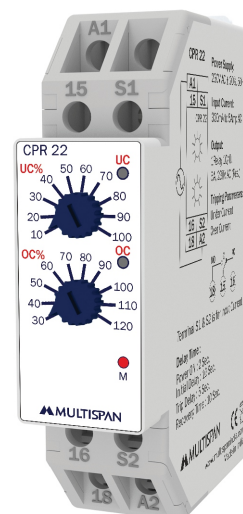
Model	SVR-22U Single Phase Voltage Relay Universal Supply
Dimension (HxWxD)mm	90 x 22.5 x 72
Mounting	Din Rail Mounting
INPUT Voltage	160 to 300V AC (L-N), 1Ø-2W
Rated Voltage	230V AC (L-N)
OUTPUT	1 Relay 1C/O, 5A 230V AC Resistive Load
TRIPPING PARAMETER	Under Voltage Over Voltage
POWER SUPPLY	Self Powered
Note	Power ON Delay Time & Trip Delay Time by using DIP switch



Protection Relays

Current Protection Relay

DINRAIL
MOUNT



Model	CPR-35	CPR-35-1	CR-3K	CPR-22 - 1CT
Dimension (HxWxD)mm	90 x 35 x 61.5	90 x 35 x 61.5	90 x 35 x 61.5	90 x 22.5 x 72
Mounting	Din Rail Mounting			
INPUT	Signal	3Ø3 Wire	1Ø2 Wire	3Ø3 Wire
	Current	0.05 to 5Amp (CT Selection 5/5 To 999/5 A AC)	0.2 to 5A AC	1Ø2 Wire
OUTPUT	1 Relay (NO-C-NC)			1 Relay 1C/O 5A, 230V AC (Resistive Load)
PARAMETER	Over Current Under Current Asymmetry Single Phase Preventor (SPP)			Over Current Under Current
Accuracy	Class 1.0			Class 1.0
Supply	100 to 250V AC (SMPS)			230V AC ±20%, 50Hz

Overload Relay - Built in CT

DINRAIL
MOUNT



10-30A

10-60A

50-100A

30-60A

Model	OLR 50100
Dimension (HxWxD)mm	70 x 70.5 x 91
Mounting	Din Rail Mounting
INPUT	Input Current : 50A to 100A AC
OUTPUT	1 Relay 1C/O, 5A 230V AC (Resistive Load)
TRIPPING PARAMETER	Over Current SPP
POWER SUPPLY	230V AC, 50Hz

Water Level Controller

WLC 2 TANK



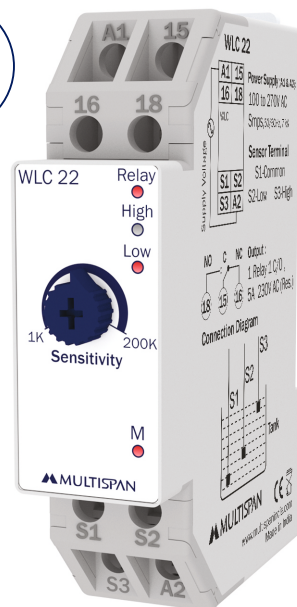
Model
Dimension (HxWxD)mm
Mounting

WLC 35
90 x 35 x 61.5
Din Rail Mounting

INPUT
OUTPUT
SENSITIVITY
TRIP DELAY
POWER SUPPLY

6 Nos Probes S-1 : Common, S-2 : Low, S-3 : High
1 Relay 1C/O, 5A 230V AC (Resistive Load)
1K to 1MΩ
0 to 10 Second
100 to 270V AC, 50/60Hz

WLC 1 TANK



Model
Dimension (HxWxD)mm
Mounting

WLC 22
90 x 22.5 x 72
Din Rail Mounting

INPUT
OUTPUT
SENSITIVITY
TRIP DELAY
POWER SUPPLY

3 Nos. Probs, S-1 : Common, S-2 : Low, S-3 : High
1 Relay 1C/O 5A, 230V AC (Resistive Load)
1 to 200 KΩ
0.5 Sec (Approx)
100 to 270V AC, 50/60Hz

Winding Temperature Relay



Model
Dimension (HxWxD)mm
Mounting

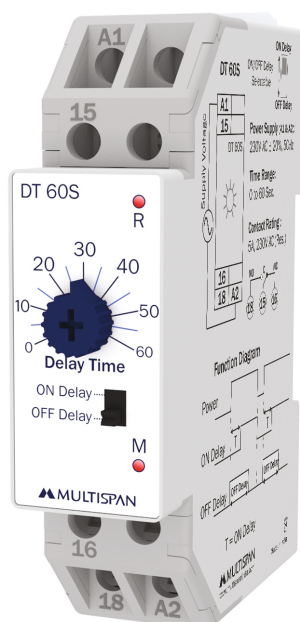
WTR 35
90 x 35 x 61.5
Din Rail Mounting

INPUT
OUTPUT
RANGE
RESET MODE
POWER SUPPLY

PTC Probe
1 Relay 2C/O, 5A 230V AC (Resistive Load)
70 °C to 180 °C
Auto / Manual Selectable
50 to 550V AC

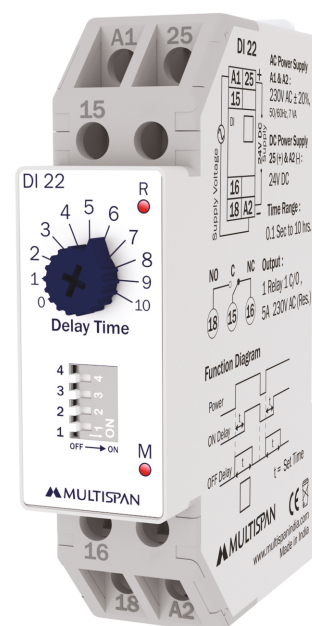
Din Rail Analog Timers

22 Timer Series

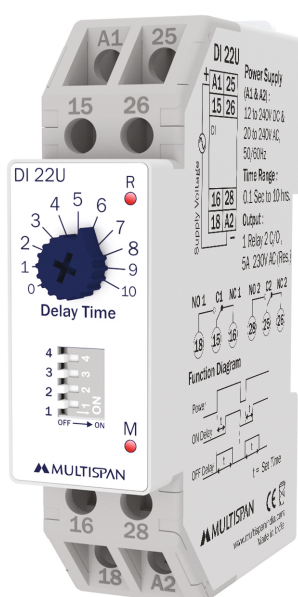


Model	DT Series
Dimension (HxWxD)mm	ON-OFF Delay Timer 90 x 22.5 x 72
Mounting	Din Rail Mounting
INPUT	Range 0 to 10 Sec (For DT-10S) 0 to 30 Sec (For DT-30S) 0 to 60 Sec (For DT-60S) 0 to 15 Min (For DT-15M) 0 to 30 Min (For DT-30M)
OUTPUT	1 Relay 1C/O, 5A 230V AC (Resistive Load)
POWER SUPPLY	230V AC $\pm 20\%$, 50Hz / 24V DC / 415V AC (Factory Set)

Model	DI-22
Dimension (HxWxD)mm	Multi Range ON-OFF Delay Timer 90 x 22.5 x 72
Mounting	Din Rail Mounting
INPUT	Range 0.1 Sec to 10 Sec / Min / Hour
OUTPUT	1 Relay 1C/O 5A, 230V AC (Resistive Load)
POWER SUPPLY	230V AC $\pm 20\%$, 50Hz & 24V AC/DC

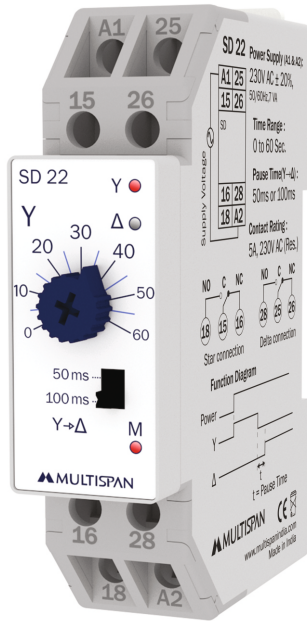


Model	DI-22U
Dimension (HxWxD)mm	ON-OFF Delay Timer (Universal Supply) 90 x 22.5 x 72
Mounting	Din Rail Mounting
INPUT	Range 0.1 Sec to 10 Sec / Min / Hour
OUTPUT	1 Relay 2C/O 5A, 230V AC (Resistive Load)
POWER SUPPLY	12V to 240V DC & 20V to 240V AC, 50/60Hz



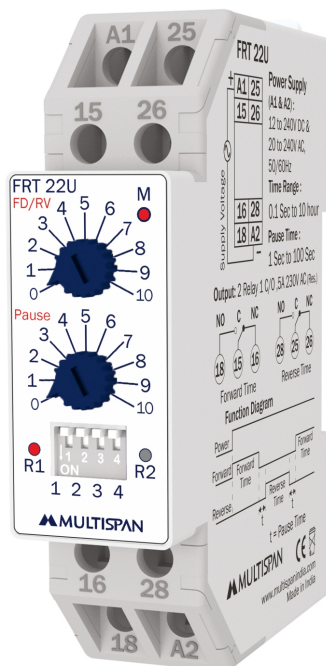
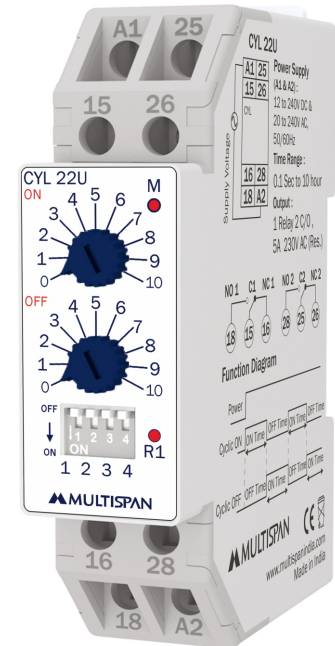
Din Rail Analog Timers

22 Timer Series



Model	SD-22
Dimension (HxWxD)mm	90 x 22.5 x 72
Mounting	Din Rail Mounting
INPUT	Range Time Range : 0 to 60 Sec Pause Time : 50ms or 100ms Selection by front key
OUTPUT	2 Relay O/P (1C/O, 5A 230V AC (Resistive Load)) 1st Relay for star connection & 2nd Relay for delta connection
POWER SUPPLY	230V AC ±20%, 50Hz
Note	415V AC Supply Available on request (SD-224)

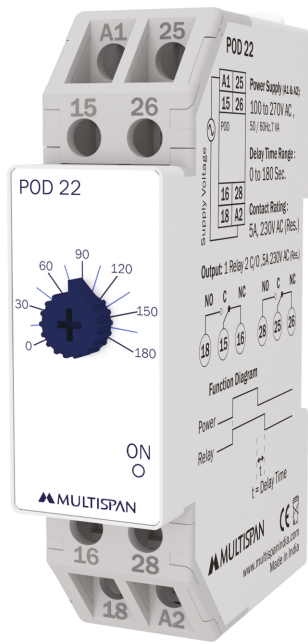
Model	CYL-22U
Dimension (HxWxD)mm	90 x 22.5 x 72
Mounting	Din Rail Mounting
INPUT	Range 0.1 Sec to 10 Sec / Min / Hour
OUTPUT	1 Relay 2C/O 5A, 230V AC (Resistive Load)
POWER SUPPLY	12V to 240V DC & 20V to 240V AC, 50/60Hz



Model	FRT-22U
Dimension (HxWxD)mm	90 x 22.5 x 72
Mounting	Din Rail Mounting
INPUT	Range Forward & Reverse Time Range : 0.1 Sec to 10 Hour Pause Time : 1 Sec to 100 Sec
OUTPUT	2 Relay 1 C/O, 5A 230V AC (Resistive Load) 1st Relay For Forward Time & 2nd Relay For Reverse Time
POWER SUPPLY	12V to 240V DC & 20V to 240V AC, 50/60Hz

Din Rail Relays

22 Series



Model	POD-22
Dimension (HxWxD)mm	Power OFF Delay Timer 90 x 22.5 x 72
Mounting	Din Rail Mounting
INPUT Range	0 to 180 Sec
OUTPUT	1 Relay 2C/O 5A, 230V AC (Resistive Load)
POWER SUPPLY	100 to 270V AC, 50/60Hz

Multi Channel Current Transducer

CT upto 100A



DINRAIL
MOUNT

3CT

4CT

6CT

8CT

Model	MCS-63
Dimension (HxWxD)mm	76 x 28 x 116
Mounting	Din Rail Mounting
INPUT	Current : 2A to 60A Direct UP to 6 Current Scanner
OUTPUT	RS-485 Modbus
POWER SUPPLY	24V DC, 100 to 270V AC
Note	100 Amp 3 CT Also Available

Power & Energy Meters

Multifunction Meter



Model		AVH-14	MFM-13
Dimension (HxWxD)mm		96 x 96 x 54	96 x 96 x 54
Panel Cutout mm		92 x 92	92 x 92
INPUT	Signal	3Ø4 Wire / 3Ø3 Wire / 1Ø2 Wire	
	Voltage	Primary : 100V to 520kv (Programmable), Secondary : 100V to 520V (L-L) (Programmable)	
	Current	Current : 5A to 6000A (Programmable), Secondary : 5A/1A (Programmable)	
PARAMETER	KW Total	0.000 - 9999 MW	0.000 - 9999 MW
	KW Per Phase	0.000 - 9999 MW	0.000 - 9999 MW
	WH Total	0.000 - 99999999 MWH	000.000 - 999999999.999 KWH
	Power Factor Average (PF)	0.100 - 1.000	0.100 - 1.000
	Power Factor Per Phase (PF)	0.100 - 1.000	0.100 - 1.000
	KVA Total	0.000 - 9999 MVA	0.000 - 9999 MVA
	VAH Total	0.000 - 99999999 MVAh	000.000 - 999999999.999 KVAh
	Frequency (Hz)	45 - 60Hz	45 - 60Hz
	KVAr Total	0.000 - 9999 MVar	0.000 - 9999 MVar
	Varh Total	000.000 - 99999999 MVarh	000.000 - 999999999.999 KVarh
	Load Hours	9999.59 Hrs/Min.	9999.59 Hrs/Min.
	NO Load Hours	9999.59 Hrs/Min.	9999.59 Hrs/Min.
	RPM	3600 RPM @ 60Hz & 2 Pole	3600 RPM @ 60Hz & 2 Pole
COMMUNICATION		RS-485 Modbus (Optional) Pulse Output	
Accuracy		Class 0.5	
Supply		100 to 270V AC (SMPS) , 50/60Hz, Approx 4VA	

Power & Energy Meters

Multifunction Meter

with Harmonics



Model		AVH-16	MFM-15
Dimension (HxWxD)mm		96 x 96 x 54	96 x 96 x 54
Panel Cutout mm		92 x 92	92 x 92
INPUT	Signal	3Ø4 Wire / 3Ø3 Wire / 1Ø2 Wire	
	Voltage	Primary : 100V to 520kv (Programmable), Secondary : 100V to 520V (L-L) (Programmable)	
	Current	Current : 5A to 6000A (Programmable), Secondary : 5A/1A (Programmable)	
PARAMETER	KW Total	0.000 - 9999 MW	0.000 - 9999 MW
	KW Per Phase	0.000 - 9999 MW	0.000 - 9999 MW
	WH Total	0.000 - 99999999 MWH (Import & Export)	000.000 - 999999999.999 KWH
	Power Factor Average (PF)	0.100 - 1.000	0.100 - 1.000
	Power Factor Per Phase (PF)	0.100 - 1.000	0.100 - 1.000
	KVA Total	0.000 - 9999 MVA	0.000 - 9999 MVA
	VAH Total	0.000 - 99999999 MVAH	000.000 - 999999999.999 KVAH
	Frequency (Hz)	45 - 60Hz	45 - 60Hz
	KVAr Total	0.000 - 9999 MVAr	0.000 - 9999 MVAr
	Varh Total	000.000 - 99999999 MVArh (Import & Export)	000.000 - 999999999.999 KVArh
	THD%	Up to 32 Order (Voltage & Ampere)	Up to 32 Order (Voltage & Ampere)
	Load Hours	9999.59 Hrs/Min.	9999.59 Hrs/Min.
	NO Load Hours	9999.59 Hrs/Min.	9999.59 Hrs/Min.
	RPM	3600 RPM @ 60Hz & 2 Pole	3600 RPM @ 60Hz & 2 Pole
COMMUNICATION		RS-485 Modbus (Optional) Pulse Output	
Accuracy		Class 0.5	
Supply		100 to 270V AC (SMPS) , 50/60Hz, Approx 4VA	
Note		1 Relay (NO-C) 5A, 230V AC Resistive Load & Dual Terrif available in AVH-16 As per request	

Power & Energy Meters

3 Phase Energy & Power Meter



Model	EPM-14	EM-10	EM-1P
Dimension (HxWxD)mm	96 x 96 x 54	96 x 96 x 43	96 x 96 x 43
Panel Cutout mm	92 x 92	92 x 92	92 x 92
INPUT	Signal	3Ø4Wire	
	Voltage	30 to 300V AC (L-N) / 50 to 520V AC (L-L)	
	Current	5/5 to 9999A AC CT Ratio Selectable	
Measuring Range	Reset	KWH Reset by front key	Reset by front key
	Measuring Range	0.000 to 9999 KW (Active Power) 0 to 99999999 KWH (Active Energy)	0.000 TO 9999 KW 0 to 99999999 KWH (Active Energy)
	Accuracy	Class 1.0	
Supply	Supply	100 to 270V AC (SMPS),50/60Hz	
	Note	RS-485 Modbus available, 2 Relay available in only EPM-14 As per request	

3 Phase and 1 Phase Panel Meter

VAF METER



Model	AVF-29T	AVF-19D	AVF-133
Dimension (HxWxD)mm	72 x 72 x 45	96 x 96 x 43	96 x 96 x 54
Panel Cutout mm	68 x 68	92 x 92	92 x 92
INPUT	Signal	3Ø4Wire / 3Ø3 Wire / 1Ø2 Wire	
	Voltage	Primary PT : 100V to 520KV Secondary PT : 50 to 520V AC (L-L)	30 to 300V AC (L-N) 50 to 520V AC (L-L)
	Current	Primary CT : 9999A Secondary CT : 5A/1A	Primary CT : 9999A Secondary CT : 5A
PARAMETER	Voltage (L-L) Voltage (L-N) Average Current (L1,L2 & L3) Line Current (L1,L2 & L3) Phase Sequence	Average Voltage (L-N) Average Voltage (L-L) Frequency Load Hour / No Load Hour RPM	Voltage (L-L) Voltage (L-N) Average Current (L1,L2 & L3) Line Current (L1,L2 & L3) Phase Sequence
	Accuracy	Class 0.5	Class 0.5
	Supply	100 to 270V AC (SMPS),50/60Hz	100 to 270V AC (SMPS), 50/60Hz
Note	RS-485 Modbus Available in AVF-133 as per request		

Power & Energy Meters

3 Phase Ampere Meter



Model	AMP-19	AMP-13	AMP-23
Dimension (HxWxD)mm	96 x 96 x 43	96 x 96 x 43	72 x 72 x 43
Panel Cutout mm	92 x 92	92 x 92	68 x 68
INPUT	Current	0.5A to 5A Primary : 5A to 9999A AC CT Selection Secondary : 5A	0.1A to 5A Primary : 5 to 10K Ampere (Selectable) Secondary : 1A/5A (Selectable)
	Accuracy	Class 0.5	Class 0.5
	Supply	230V AC $\pm 20\%$, 50Hz	100 to 270V AC (SMPS), 50/60Hz
	Note	RS-485 Modbus is available in AMP-13	

3 PHASE VOLT METER



Model	VOLT-19	VOLT-13	VOLT-23
Dimension (HxWxD)mm	96 x 96 x 43	96 x 96 x 43	72 x 72 x 36
Panel Cutout mm	92 x 92	92 x 92	68 x 68
INPUT	Voltage	50 to 520V AC (L-L) Primary : 100 to 999KV (L-L) (Selectable) Secondary : 100 to 520V AC (L-L) (Selectable)	100 to 270V AC (SMPS), 50/60Hz
	Accuracy	Class 0.5	Class 0.5
	Supply	230V AC $\pm 20\%$, 50Hz	100 to 270V AC (SMPS), 50/60Hz

Power & Energy Meters

Single Phase AC Panel Meter

VOLT / AMP METER



Model	AV-14/11V	AV-24/21V	AV-34/31V	AV-41CT/41A/41V
Dimension (HxWxD)mm	96 x 96 x 43	72 x 72 x 36	48 x 96 x 26	48 x 48 x 46
Panel Cutout mm	92 x 92	68 x 68	46 x 92	45 x 45
INPUT	Ampere (AC)	5A AC Direct		
	CT Ratio	Primary : 5/5A to 4000/5A AC		
	Voltage (AC)	10 to 500V AC		
Accuracy		Class 0.5		
Supply		230V AC $\pm 20\%$, 50Hz	100 to 270V AC	230V AC $\pm 20\%$, 50Hz
Note		30A Direct CT Available at back side (AV-11A, AV-21A, AV-31A, AV-41A)		

Single Phase AC Panel Meter

VOLT + AMP METER



Model	AV-12	AV-22	AV-33	AV-44
Dimension (HxWxD)mm	96 x 96 x 43	72 x 72 x 36	48 x 96 x 66	48 x 48 x 66
Panel Cutout mm	92 x 92	68 x 68	46 x 92	45 x 45
INPUT	Current	Primary : 5/5A to 2000/5A AC		
	Voltage	10 to 500V AC		
Accuracy		Class 0.5		
Supply		100 to 270V AC/DC		
Note		30A Direct CT Available at back side		

Power & Energy Meters

DC Panel Meter VOLT / AMP METER



Model	AV-14DA/14DV	AV-24DA/24DV	AV-34DA/34DV	AV-41DV
Dimension (HxWxD)mm	96 x 96 x 43	72 x 72 x 60	48 x 96 x 26	48 x 48 x 70
Panel Cutout mm	92 x 92	68 x 68	46 x 92	45 x 45
INPUT	Ampere (DC)	-999 to 9999 Ampere DC Through 50mV, 60mV & 75mV DC External Shunt		
	Voltage (DC)	-20.0 to +20.00V DC / -50.0 to +50.0V DC / -100 to +100.0V DC / -200 to +200.0V DC / -750 to +750V DC		
	Accuracy	±1% of Full Range ±1 Count		
	Supply	100 to 270V AC/DC, 50/60Hz		
	Note	0 to 2A DC / 5A DC / 10A DC / 20A DC Direct Through Shunt is Available in Model AV-14DZ,24DZ,34DZ		

SINGLE PHASE AC PANEL METER



Model	PF-11/PF-13	WM-11	FRQ-11
Dimension (HxWxD)mm	96 x 96 x 54	96 x 96 x 43	96 x 96 x 40
Panel Cutout mm	92 x 92	92 x 92	92 x 92
INPUT	Signal	1Ø2 Wire / 3Ø4 Wire	1Ø2 Wire
	Voltage	20 to 300V / 50 to 520V	300V AC (L-N)
	Current	5A AC (CT Selection 5-9999A)	0.5 to 5Amp (CT Selection 5 - 9999A)
	CT Selection	5A AC	5A
	Secondary Function		
	Measuring Range	-1 to +1.000 PF	0 to 9999 Kilo Watt
	Accuracy	Class 0.5	Class 0.5
	Supply	100 to 270V AC (SMPS), 50/60Hz	230V AC ±20%, 50Hz
	Note	Also Available in 199.9 Watt Range 1 Relay on KW is Available in WM-11	

Power & Energy Meters

DC Panel Meter

VOLT / AMP METER



Model		MFM-14DC	VAW-34DC
Dimension (HxWxD)mm		96 x 96 x 54	48 x 96 x 26
Panel Cutout mm		92 x 92	46 x 92
INPUT	Ampere (DC)	-999 to 9999A DC Through -75mV to 75mV DC External Shunt	0 to 9999A DC Through 0 to 75mV DC External Shunt
	Voltage (DC)	0 to 1000V DC	0 to 1000V DC
	Watt (DC)	0000 to 9999 KW DC	0000 to 9999 KW DC
	Kwh	0 to 999999	NA
Accuracy		±1% of Full Range ±1 Count	
Power Supply		100 to 270V AC (SMPS), 50/60Hz	
Note		RS-485 Modbus & 2 Relay available on request (In MFM-14DC-M1)	



Model		DC-14	DC-24
Dimension (HxWxD)mm		96 x 96 x 54	72 x 72 x 45
Panel Cutout mm		92 x 92	68 x 68
INPUT	Ampere (DC)	-999 to 9999A DC Through -75mV to 75mV DC External Shunt	
	Voltage (DC)	0 to 1000V DC	
	Watt (DC)	0000 to 9999 KWh DC	
Accuracy		±1% of Full Range ±1 Count	
Power Supply		100 to 270V AC (SMPS), 50/60Hz	
Note		RS-485 Modbus Available	

Jumbo Displays

Jumbo Display Indicators

Single & Double Side



8" Display

4" Display

Model		PTC-8004 (Single Side)	PIC-6004A / UTI-6004 / MPM-6004
Dimension (HxWxD)mm		325 x 650 x 50	Dual Side : 165 x 392 x 75, Single Side: 165 x 392 x 55
INPUT	Input	0 - 10V DC / 4 - 20mA DC / 0 - 20mA DC (Configurable), Pulse through encoder / Proximity (Factory set) J / K / PT-100 2 Wire 3 Wire (Configurable), Rs-485 Modbus (Master Slave Selectable)	
	Range	J (0° to 400°C), K (0° to 1200°C), PT-100 2Wire or 3 Wire (-99.9° to 400.0°C) (-999 to 9999, 0 to 9999 Count For Analog Input)	
OUTPUT	Output1	2 Relay For Alarm Output (Optional)	
	Output2	24@30mA DC Transmitter Supply For analog Input (Optional)	
Accuracy		±1% of FSD	
Power Supply		100 to 270V AC (SMPS), 50/60Hz / 24V DC (Factory Set)	
Note		1) For Analog Input Input Model : PIC-6004A / PIC-3004A / PTC-8004 2) For Proximity Input Model : PC-6004 / MPM-6004 / RPM-6004 / MSI-3004 / UTR-6004 3) For Temperature Input Model : UTI-3004 / UTI-6004	

PROGRAMMABLE JUMBO DISPLAY COUNTER

4" Display

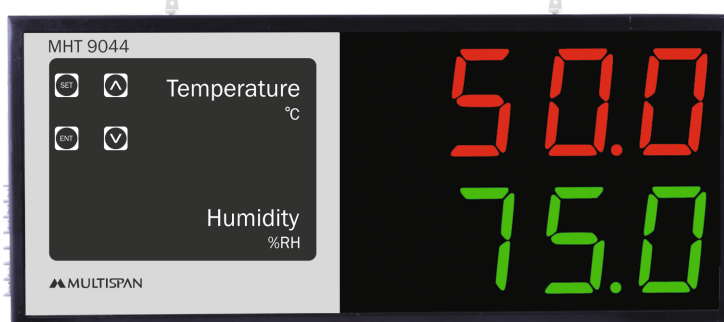


Model		PC-6006 (Single Side)
Dimension (HxWxD)mm		165 x 577 x 55
DISPLAY		Single Display : 7 Segment, 6 Digit, 4" Red Led Display
INPUT	Start Pulse	NPN / PNP Proximity Switch & Micro Switch (Configurable)
	Range	0 - 999999 Count
OUTPUT		1 Relay 1C/O 5A, 230V AC (Resistive Load) or SSR Drive O/P 12V DC, 20mA (Optional)
Memory		Non - Volatile Memory
Reset		Auto / Manual Reset / Back Reset
Supply		100 to 270V AC (SMPS), 50/60Hz, 24V DC
Note		RS-485 Input Available as per request (Master Slave Selectable)

Jumbo Displays

Humidity + Temperature Controller

2.25" Display



Model	MHT-9044 (Humidity + Temperature Controller)	
Dimension (HxWxD)mm	165 x 392 x 55	
DISPLAY	Upper Display : 7 Segment, 4 Digit, 2.25" Red Led Display - Temperature Lower Display : 7 Segment, 4 Digit, 2.25" Green Led Display - Humidity	
INPUT	Sensor	S-1 : PT-100 2 Wire or 3 Wire (RTD) S-2 : Humidity Sensor
	Range	PT-100 2 Wire or 3 Wire (-99 °C to 400 °C), Humidity Sensor (0.0 to 100.0% RH)
OUTPUT	1 st Relay For Temperature and 2 nd Relay For Humidity	
Control Action		ON-OFF
Accuracy		±1% of FSD
Power Supply		100 to 250V AC (SMPS), 50/60Hz

PROGRAMMABLE JUMBO LENGTH COUNTER

2.25" Display



Model	LC-9004	
Dimension (HxWxD)mm	165 x 392 x 55	
DISPLAY	Upper Display : 7 Segment, 6 Digit, 2.25" Red Led Display - Total Meters Lower Display : 7 Segment, 4 Digit, 2.25" Green Led Display - Meter Per Minute	
INPUT	Start Pulse	NPN / PNP Proximity Switch / Micro Switch (Configurable) or Encoder (Factory Set)
	Range	0 - 99999.9 / 0 - 999999 Meter (Configurable)
OUTPUT	1 Relay 1C/O 5A,230V AC (Resistive Load) or SSR 12V max 20mA DC Output (Any One Factory Set)	
MPM Range		999.9 MPM
Diameter		0 - 9999.99 MM
Memory		Non - Volatile Memory
Reset		Auto Reset / Manual Reset Facility & Front and Back Reset Facility
Supply		100 to 270V AC (SMPS), 50/60Hz
Note		RS-485 Input / Output Available as per request

Process Control Instruments

Signal Isolators



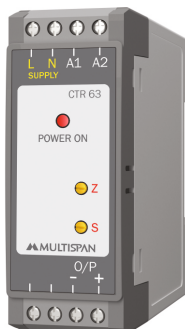
Model	MI-431	MI-532	MI-631 / MI-632
Dimension (HxWxD)mm	100 x 12.5 x 115	100 x 17.5 x 115	76 x 27 x 85
Panel Cutout (mm)	Din Rail Mounting	Din Rail Mounting	Din Rail Mounting
INPUT	Analog : 0 - 20mA DC / 4 - 20mA DC / 0 - 10V DC (Factory set)		0 - 20mA DC / 4 - 20mA DC / 0 - 10V DC / -5 to 5V DC / 0 - 300V DC (Factory Reset) Resistance 2 Wire or 3 Wire port
OUTPUT	0 - 20mA DC / 4 - 20mA DC / 0 - 10V DC, Single Output (Factory Set) 24V DC Transmitter Supply	0 - 20mA DC / 4 - 20mA DC / 0 - 10V DC, Dual Output (Factory Set) 24V DC Transmitter Supply	0 - 20mA DC / 4 - 20mA DC / 0 - 10V DC, (Single Output or Dual Output) (Factory Set)
Accuracy	±0.5% of FSD		
Supply	100 - 270V AC (SMPS), 50/60Hz or 24V DC (Factory Set)		



Model	MI-631T / MI-632T	MI-631P / MI-532P
Dimension (HxWxD)mm	76 x 27 x 85 / 76 x 27 x 85	76 x 27 x 85 / 100 x 17.5 x 115
Panel Cutout (mm)	Din Rail Mounting	Din Rail Mounting
INPUT Sensor	J / K Type	PT-100 2 Wire or 3 Wire
OUTPUT	0 - 20mA DC / 4 - 20mA DC / 0 - 10V DC (Single or Dual Output) (Factory set)	
Accuracy	±1% of FSD	±0.5% of FSD
Supply	100 - 270V AC (SMPS), 50/60Hz or 24V DC (Factory set)	

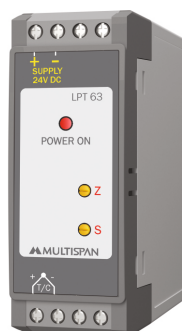
Process Control Instruments

Voltage & Current Transducers



Model	CTR-63 / CTR-632	VTR-63 / VTR-632
Dimension (HxWxD)mm	76 x 27 x 85	76 x 27 x 85
Mounting	Din Rail Mounting	Din Rail Mounting
INPUT	0 to 5A AC, 0 to 1A AC (Factory Set)	AC Voltage
OUTPUT	0 - 20mA DC / 4 - 20mA DC / 0 - 10V DC (Single or Dual Output) (Factory Set)	0 - 20mA DC / 4 - 20mA DC / 0 - 10V DC (Single or Dual Output) (Factory Set)
Accuracy	±1% of FSD	
Supply	100 - 270V AC (SMPS), 50/60Hz / 24V DC (Factory Set)	

Loop Powered Transmitter



Model	LPT-45	LPT-63
Dimension (HxWxD)mm	Diameter : 45mm	76 x 27 x 85
Panel Cutout (mm)	Head Mounting	Din Rail Mounting
INPUT	Input	
	PT-100 3 Wire / J / K (Factory Set)	
	Range	Fix Range
	PT-100 : 0 to 100 / 0 to 200 / 0 to 300 / 0 to 400 (Configurable) / Fix Range	
OUTPUT	4 - 20mA DC Signal (2 Wire System)	
Supply	24V DC Loop Powered	

25A

40A

50A

70A

Solid State Relays

Model	RS-40A
Dimension (HxWxD)mm	62 x 45 x 25
INPUT	4 - 32V DC / 4 - 16mA
OUTPUT	24 - 480V AC
FEATURES	Input LED Indication Zero Cross over SSR Design PIV : 800V



Switched Mode Power Supply

24V
1A24V
5A24V
6.5A48V
2.5A12V
1A12V
2A12V
8A15V
5A

Model	PS24-5A	PS24-1A
Dimension (HxWxD)mm	105 x 45 x 110	90 x 66.5 x 22.5
INPUT	100V - 270V AC	100V - 270V AC
OUTPUT	24V DC, 5A	24V DC, 1A
RATED POWER	120W	24W
PROTECTION	Over Load, Over Voltage, Output Short Circuit, Over Temperature	Over Load, Output Short Circuit, Over Temperature

Worldwide Presence



America & Oceania

Australia
Chile
Mexico

Africa

Botswana
Egypt
Kenya
Lebanon
Namibia
Nigeria
South Africa
Tunisia
Uganda
Qatar
Singapore
UAE

Asia

Bahrain
Indonesia
Iraq
Jordan
Kuwait
Malaysia
Maldives
Myanmar
Oman
Saudi Arabia
Syria
Vietnam

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