



TEKNIC ELECTRIC



Control and Signaling Devices Ø 22.5 Metal Clip on Series

MRP with effect from 10.07.2024



Control and signaling devices Ø22.5 Metallic Clip on series

Salient features

This range of Ø22.5 Metallic Clip on series pushbuttons, selector switches, illuminated switches and pilot lights in engineering plastic construction have been designed to provide the following salient features:

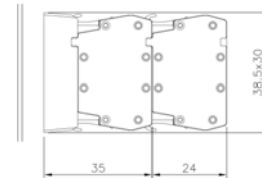
- Economy of space
- Protection against electrical shock
- Robust in materials of construction
- Larger operating surface than Ø30.5 series
- Safe in operation
- Simple to fix-screw driver is all that is required
- Fixing method unaffected by excessive vibration unit does not rotate
- Very good flame resistance
- Aesthetically elegant
- Shrouded terminals
- Resistant to corrosion

Actuators

The circular actuators have metallic bezels and are functionally interchangeable on the different types of contact elements.

Contact elements

The contact elements have double break contacts. The elements are interchangeable and can be stacked without additional hardware. 1 to 6 elements (NO or NC) can be used with non illuminated actuators, whereas 1 to 4 elements (NO or NC) can be used for illuminated actuators. Gold plated NO and NC contact elements for low voltage, low current switching circuits < 25mA are available



Illuminated pushbuttons and pilot lights

Pilot lights and illuminated switches are suitable for direct connection using bayonet cap led bulb type BA9S as follows:

Supply voltage for direct connection without series resistor.....6V-240V
 Bulb.....led type Ba9S with OAL max 28mm

Terminals

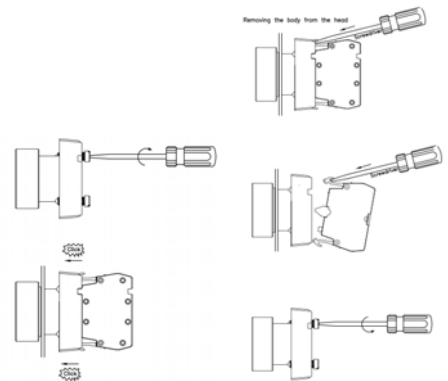
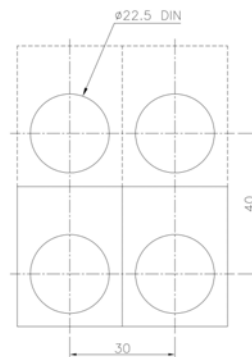
Contact elements and pilot lights are designed to have shrouded terminals with combi screws

Fixing

The Ø22.5 4P metallic Clip on series control devices can be fixed in any position on panels of 1 to 5 mm thickness.

We recommend minimum fixing centres of 30mm X 40mm. However, the dimensions and configuration should be decided on the basis of the application.

The actuators, pilot lights bayonet fits & the lense assemblies snap fits on the holding bracket. Details of the assembly shown in the diagram



Electrical and mechanical characteristics

Standards conformity	: UL508, EN 60947-5-1
Approvals	: UL508
Degree of protection	: IP65 as per IEC 60529, NEMA 4X, 12 as per UL50
Ambient	: -25°C to +70°C
Operating position	: All positions
Pollution degree	: 3

Contact Block

Rated insulation voltage	: 500V																		
Rated thermal current	: 10A																		
Contact operation	: Slow break NO or NC																		
Make and break capacity	: AC15 4A, 415V AC																		
As per IEC 60947-5-1	: DC13 0.5A, 110VDC																		
As per UL 508	: A600 Q600																		
Terminal Capacity	: Maximum 2X1.5mm ² , Minimum 1X2.5mm ² or minimum 1X0.5mm ²																		
Terminal marking	: 1NC 2 for NC & 3NO 4 for NO																		
Short circuit protection	: 10A HRC cartridge fuse, rated for resistive loading at 1000A prospective current																		
Mechanical life	: Over 1 million operations																		
Electrical rating (for 1 million operation cycles at 3600 cycles per hour, load factor 0.5)	: AC15																		
	<table> <tr> <td>V</td> <td>24</td> <td>120</td> <td>230</td> <td></td> <td>DC13</td> </tr> <tr> <td>A</td> <td>4</td> <td>3</td> <td>2</td> <td></td> <td>V 24 110</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>A 0.5 0.2</td> </tr> </table>	V	24	120	230		DC13	A	4	3	2		V 24 110						A 0.5 0.2
V	24	120	230		DC13														
A	4	3	2		V 24 110														
					A 0.5 0.2														
Screw clamp tightening torque	: 0.8Nm (nominal recommended)																		

Modules for pilot lights & illuminated switches with LED bulbs (Ba9S cap)

Current consumption (applicable to all colors)	: max 20mA
Terminal capacity	: Maximum 2X1.5mm ² , Minimum 1X2.5mm ² or minimum 1X0.5mm ²
Service life (at nominal voltage and at ambient temperature at 25°C)	: 50,000 hours



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CLIP ON METAL SERIES				
MOMENTARY ACTUATORS				
	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs.
	Flush	White	4AF1	85.00
		Black	4AF2	85.00
		Green	4AF3	85.00
		Red	4AF4	85.00
		Blue	4AF6	85.00
		Yellow	4AF8	85.00
	Projecting	White	4AP1	85.00
		Black	4AP2	85.00
		Green	4AP3	85.00
		Red	4AP4	85.00
		Blue	4AP6	85.00
		Yellow	4AP8	85.00
	Flush with arrow marking	White	4AF1BA	110.00
		Black	4AF2WA	110.00
	Flush Relay Reset	White	4AF1RR	115.00
		Black	4AF2RR	115.00
		Green	4AF3RR	115.00
		Red	4AF4RR	115.00
		Blue	4AF6RR	115.00
		Yellow	4AF8RR	115.00
	Recess head	White	4AF1RH	140.00
		Black	4AF2RH	140.00
		Green	4AF3RH	140.00
		Red	4AF4RH	140.00
		Blue	4AF6RH	140.00
		Yellow	4AF8RH	140.00
	Booted	Black	4AB2	160.00
		Green	4AB3	160.00
		Red	4AB4	160.00
		Blue	4AB6	160.00
		Yellow	4AB8	160.00







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CLIP ON METAL SERIES

MUSHROOM ACTUATORS

	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs.
	Latching	Black	4AMLS2	185.00
	Head Ø 30mm	Red	4AMLS4	185.00
	Momentary	Black	4AM2	130.00
	Head Ø 40mm	Green	4AM3	130.00
		Red	4AM4	130.00
		Blue	4AM6	130.00
		Yellow	4AM8	130.00
	Latching	Black	4AML2	185.00
	Head Ø 40mm	Red	4AML4	185.00
	Push-Pull	Black	4AMPP2	185.00
	Head Ø 40mm	Red	4AMPP4	185.00







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CLIP ON METAL SERIES

MUSHROOM ACTUATORS









CLIP ON METAL SERIES				
MUSHROOM ACTUATORS				
	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs.
				
	Latching	Black	4AMLKB2	370.00
	with Key	Red	4AMLKB4	370.00
	Head Ø 40mm			
				
	Latching	Black	4AMLJ2	250.00
	Head Ø 60mm	Red	4AMLJ4	250.00
				
	Push-Pull	Black	4AMPPJ2	250.00
	Head Ø 60mm	Red	4AMPPJ4	250.00
		Black	4AMJ2	185.00
	Momentary	Green	4AMJ3	185.00
	Head Ø 60mm	Red	4AMJ4	185.00
		Blue	4AMJ6	185.00
		Yellow	4AMJ8	185.00



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CLIP ON METAL SERIES

SELECTOR ACTUATORS

	TYPE		COLOUR	ORDERING CODE	PRICE IN Rs.
	2 position LATCHING		Black	4AS2-2P	255.00
	With extended knob			4AS2E-2P	255.00
	2 position MOMENTARY			4AS2-2PSR	255.00
	With extended knob			4AS2E-2PSR	255.00
	3 position STAY PUT			4AS2-3P	255.00
	With extended knob			4AS2E-3P	255.00
	MOMENTARY on both sides			4AS2-3PSR	275.00
	With extended knob			4AS2E-3PSR	275.00
	MOMENTARY on right			4AS2-3PSRR	275.00
	With extended knob			4AS2E-3PSRR	275.00
	MOMENTARY on left			4AS2-3PSRL	275.00
	With extended knob			4AS2E-3PSRL	275.00



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CLIP ON METAL SERIES

KEY SELECTOR



TYPE		COLOUR	ORDERING CODE	PRICE IN Rs.	
2 POSITION Stayput		Black	4AK2-2PB	350.00	
			4AK2-2PO	350.00	
			4AK2-2PI	350.00	
	Spring Return			4AK2-2POSR	350.00
3 POSITION Stayput		Black	4AK2-3PA	375.00	
			4AK2-3PB	375.00	
			4AK2-3PC	375.00	
	Spring Return			4AK2-3POSR	375.00
	Spring Return right to centre			4AK2-3PSRR	375.00
	Spring Return left to centre			4AK2-3PSRL	375.00

* X stands for position in which key is removable





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CLIP ON METAL SERIES

TWIN ACTUATORS

	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs.
	Twin Actuator Double Flush, (IO) Mark			
	Flush Button with I mark	Green	4ATF3F4(IO)	170.00
	Flush Button with O mark	Red		
	Twin Actuator Flush/Projecting, (IO) Mark			
	Flush Button with I mark	Green	4ATF3P4(IO)	170.00
	Projecting Button with O mark	Red		

TWIN ILLUMINATED ACTUATORS WITH LED BULB

	TYPE	COLOUR	ORDERING CODE	
	Twin Illuminated Double Flush, (IO) Mark			
	LED Bulb, BA9S type	Green	4ATL5LBF3F4 (IO)	395.00
	24 V AC/DC,	Red		
	110 VAC, 110 VDC	Amber Lense/Amber LED		
	230 VAC, 220 VDC			
	Please mention the voltage required after the ordering code			
	Twin Illuminated 1 Flush, 1 Projecting, (IO) Mark			
	LED Bulb, BA9S type	Green	4ATL5LBF3P4 (IO)	395.00
	24 V AC/DC,	Red		
	110 VAC, 110 VDC	Amber Lense/Amber LED		
	230 VAC, 220 VDC			
	Please mention the voltage required after the ordering code			


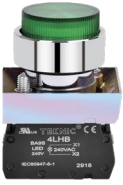


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Control & Signalling Devices 22.5 Ø

CLIP ON METAL SERIES

ILLUMINATED MOMENTARY ACTUATORS WITH LED BULB

	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs. WITH LED BULB
	Illuminated Flush, Momentary			
	LED Bulb, BA9S type	White LED Bulb / White Lens	4ALF1LB(S)	535.00
	24V AC/DC,	Green LED Bulb / Green Lens	4ALF3LB	295.00
	110VAC, 110VDC	Red LED Bulb / Red Lens	4ALF4LB	295.00
	230VAC, 220VDC	Amber LED Bulb / Amber Lens	4ALF5LB	295.00
		Blue LED Bulb / Blue Lens	4ALF6LB	575.00
		White LED Bulb/ Clear Lens	4ALF7LB(S)	535.00
		Yellow LED Bulb / Yellow Lens	4ALF8LB	295.00
LED Bulb	Please mention the voltage required after the ordering code			
	Illuminated Projecting, Momentary			
	LED Bulb, BA9S type	White LED Bulb / White Lens	4ALP1LB(S)	535.00
	24V AC/DC,	Green LED Bulb / Green Lens	4ALP3LB	295.00
	110VAC, 110VDC	Red LED Bulb / Red Lens	4ALP4LB	295.00
	230VAC, 220VDC	Amber LED Bulb / Amber Lens	4ALP5LB	295.00
		Blue LED Bulb / Blue Lens	4ALP6LB	575.00
		White LED Bulb/ Clear Lens	4ALP7LB(S)	535.00
		Yellow LED Bulb / Yellow Lens	4ALP8LB	295.00
LED Bulb	Please mention the voltage required after the ordering code			






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Control & Signalling Devices 22.5 Ø

CLIP ON METAL SERIES

ILLUMINATED SELECTOR ACTUATOR WITH LED BULB

	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs. WITH LED BULB
	2 Position illuminated selector actuator			
	LED Bulb BA9S type	White LED Bulb / White Lens	4ASL1LB(S)-2P	740.00
	24V AC/DC,	Green LED Bulb / Green Lens	4ASL3LB-2P	490.00
	110VAC, 110VDC	Red LED Bulb / Red Lens	4ASL4LB-2P	490.00
	230VAC, 220VDC	Amber LED Bulb / Amber Lens	4ASL5LB-2P	490.00
		Blue LED Bulb / Blue Lens	4ASL6LB-2P	770.00
		White LED Bulb / Clear Lens	4ASL7LB(S)-2P	740.00
		Yellow LED Bulb / Yellow Lens	4ASL8LB-2P	490.00
	Please mention the voltage required after the ordering code			
	LED Bulb BA9S type	White LED Bulb / White Lens	4ASL1LB(S)-2PSR	740.00
	24V AC/DC,	Green LED Bulb / Green Lens	4ASL3LB-2PSR	490.00
	110VAC, 110VDC	Red LED Bulb / Red Lens	4ASL4LB-2PSR	490.00
	230VAC, 220VDC	Amber LED Bulb / Amber Lens	4ASL5LB-2PSR	490.00
		Blue LED Bulb / Blue Lens	4ASL6LB-2PSR	770.00
		White LED Bulb / Clear Lens	4ASL7LB(S)-2PSR	740.00
		Yellow LED Bulb / Yellow Lens	4ASL8LB-2PSR	490.00
LED Bulb	Please mention the voltage required after the ordering code			











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CLIP ON METAL SERIES

ILLUMINATED SELECTOR WITH LED BULB

	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs. WITH LED BULB	
3 Position Illuminated Selector Actuator					
	Stayput	White LED Bulb / White Lens	4ASL1LB(S)-3P	760.00	
	LED Bulb BA9S type	Green LED Bulb / Green Lens	4ASL3LB-3P	505.00	
	24V AC/DC,	Red LED Bulb / Red Lens	4ASL4LB-3P	505.00	
	110VAC, 110VDC	Amber LED Bulb / Amber Lens	4ASL5LB-3P	505.00	
	230VAC, 220VDC	Blue LED Bulb / Blue Lens	4ASL6LB-3P	790.00	
		White LED Bulb / Clear Lens	4ASL7LB(S)-3P	760.00	
		Yellow LED Bulb / Yellow Lens	4ASL8LB-3P	505.00	
	Please mention the voltage required after the ordering code				
		Momentary	White LED Bulb / White Lens	4ASL1LB(S)-3PSR	770.00
		LED Bulb BA9S type	Green LED Bulb / Green Lens	4ASL3LB-3PSR	520.00
24V AC/DC,		Red LED Bulb / Red Lens	4ASL4LB-3PSR	520.00	
110VAC, 110VDC		Amber LED Bulb / Amber Lens	4ASL5LB-3PSR	520.00	
230VAC, 220VDC		Blue LED Bulb / Blue Lens	4ASL6LB-3PSR	800.00	
		White LED Bulb / Clear Lens	4ASL7LB(S)-3PSR	770.00	
		Yellow LED Bulb / Yellow Lens	4ASL8LB-3PSR	520.00	
Please mention the voltage required after the ordering code					
		Momentary / Stayput	White LED Bulb / White Lens	4ASL1LB(S)-3PSRL	770.00
		LED Bulb BA9S type	Green LED Bulb / Green Lens	4ASL3LB-3PSRL	520.00
	24V AC/DC,	Red LED Bulb / Red Lens	4ASL4LB-3PSRL	520.00	
	110VAC, 110VDC	Amber LED Bulb / Amber Lens	4ASL5LB-3PSRL	520.00	
	230VAC, 220VDC	Blue LED Bulb / Blue Lens	4ASL6LB-3PSRL	800.00	
		White LED Bulb / Clear Lens	4ASL7LB(S)-3PSRL	770.00	
		Yellow LED Bulb / Yellow Lens	4ASL8LB-3PSRL	520.00	
	Please mention the voltage required after the ordering code				
		Momentary / Stayput	White LED Bulb / White Lens	4ASL1LB(S)-3PSRR	770.00
		LED Bulb BA9S type	Green LED Bulb / Green Lens	4ASL3LB-3PSRR	520.00
24V AC/DC,		Red LED Bulb / Red Lens	4ASL4LB-3PSRR	520.00	
110VAC, 110VDC		Amber LED Bulb / Amber Lens	4ASL5LB-3PSRR	520.00	
230VAC, 220VDC		Blue LED Bulb / Blue Lens	4ASL6LB-3PSRR	800.00	
		White LED Bulb / Clear Lens	4ASL7LB(S)-3PSRR	770.00	
		Yellow LED Bulb / Yellow Lens	4ASL8LB-3PSRR	520.00	
Please mention the voltage required after the ordering code					
LED Bulb		Please mention the voltage required after the ordering code			





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CLIP ON METAL SERIES

ILLUMINATED MUSHROOM WITH LED BULB

	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs. WITH LED BULB
		Illuminated Mushroom, Momentary		
LED Bulb, BA9S type				
24V AC/DC,		Green	4ALM3LB	505.00
110VAC, 110VDC		Red	4ALM4LB	505.00
230VAC, 220VDC				
LED Bulb	Please mention the voltage required after the ordering code			
	Illuminated Mushroom, Push Pull			
	LED Bulb, BA9S type			
	24V AC/DC,	Green	4ALMPP3LB	575.00
	110VAC, 110VDC	Red	4ALMPP4LB	575.00
	230VAC, 220VDC			
LED Bulb	Please mention the voltage required after the ordering code			




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Control & Signalling Devices 22.5 Ø

CLIP ON METAL SERIES

PILOT LIGHTS WITH LED BULB

	TYPE	COLOUR	ORDERING CODE	PRICE IN Rs. WITH LED BULB
	Pilot Light			
	LED Bulb, BA9S type	White LED Bulb / White Lens	4PLB1LB(S)	495.00
	24V AC/DC,	Green LED Bulb / Green Lens	4PLB3LB	255.00
	110VAC, 110VDC	Red LED Bulb / Red Lens	4PLB4LB	255.00
	230VAC, 220VDC	Amber LED Bulb / Amber Lens	4PLB5LB	255.00
		Blue LED Bulb / Blue Lens	4PLB6LB	525.00
		White LED Bulb / Clear Lens	4PLB7LB(S)	495.00
		Yellow LED Bulb / Yellow Lens	4PLB8LB	255.00
LED Bulb	Please mention the voltage required after the ordering code			











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CLIP ON METAL SERIES

CONTACT ELEMENTS

	TYPE	ORDERING CODE	PRICE IN Rs.
	PANEL MOUNTING		
	NORMALLY OPEN (NO) SILVER CONTACT	C1	80.00
	NORMALLY CLOSED (NC) SILVER CONTACT	C2	80.00
		NORMALLY OPEN (NO) GOLD CONTACT	C3
		NORMALLY CLOSED (NC) GOLD CONTACT	C4
		BASE MOUNTING	
NORMALLY OPEN (NO) SILVER CONTACT		C5	80.00
	NORMALLY CLOSED (NC) SILVER CONTACT	C6	80.00
		NORMALLY OPEN (NO) GOLD CONTACT	C7
		NORMALLY CLOSED (NC) GOLD CONTACT	C8

Common types of control and signalling devices Ø 22.5 Metallic, Clip on Series

Description	Type of Actuator or Lense Assembly	Colour of Actuator or Lense	Contact elements NO=C1 NC=C2 or Lamp Holder	Type of complete Control or Signalling Device	
Flush pushbutton	4AF3	Green	1NO	4PSF310	
	4AF8	Yellow	2NO+1NC	4PSF821	
Projecting pushbutton	4AP2	Black	2NC	4PSP202	
	4AP4	Red	3NO+3NC	4PSF433	
Booted Pushbutton	4AF3+2BT7	Green+clear boot	2NO	4PSF320+2BT7	
	4AF4+2BT7	Red+clear boot	2NC	4PSF402+2BT7	
Mushroom Pushbutton Spring return	4AM2	Black	1NO+1NC	4PSM211	
	4AM4	Red	1NC	4PSM401	
Mushroom Pushbutton Latching turn to release	4AML2	Black	1NC	4PSML201	
	4AML4	Red	2NO+2NC	4PSML422	
Mushroom Pushbutton Latching Key to release	4AMLKB4	Red	1NO+1NC	4PSMLKB411	
Selector Pushbutton-2P	4AS2-2P	Black	1NO	4PSS210-2P	
Selector Pushbutton-3P	4AS2-3P	Black	1NO+1NC	4PSS211-3P	
Key Pushbutton (2Pos) key removable in both positions	4AK2-2PB	Black	1NO	4PSK210-2PB	
Key Pushbutton (3Pos) key removable in left & right positions	4AK2-3PB	Black	1NO+1NC	4PSK211-3PB	
Twin Pushbutton marked "IO"	4ATF3-F4-IO	Flush-Green	1NO	4PSTF310-F401-IO	
Flush-Flush		Flush-Red	1NC		
Twin Pushbutton marked "IO"	4ATF3-P4-IO	Flush-Green	1NO	4PSTF310-P401-IO	
Flush-Projecting		Projecting-Red	1NC		
Flush illuminated pushbutton with multichip LED bulb direct connection	4ALF3LB24DC	Green	1NO+1NC	4PSLF3LB1124DC	
Twin Luminous Pushbutton with "IO" marking Flush-Flush with LED bulb (230VAC)	4ATL5LB-F3-F4230AC-IO	Lense-Amber	1NO	4PSTL5LBF310-F401230AC-IO	
Flush-Flush with LED bulb (230VAC)		Flush-Green	1NO		
Twin Luminous Pushbutton with "IO" marking Flush - Projecting with LED bulb (110VAC)	4ATL5LB-F3-P4110AC-IO	Lense-Amber	1NO	4PSTL5LBF310-P401110AC-IO	
Flush - Projecting with LED bulb (110VAC)		Flush-Green	1NO		
Pilot Light with LED bulb for 24V Bulb:24V	4PLLA5	Amber	4LHB24	4PLB5LB24	
Pilot Light with LED bulb for 230VAC Bulb: 230V	4PLLA5	Amber	4LHB230AC	4PLB5LB230AC	

GENERAL TERMS AND CONDITIONS

General Terms : Prices are ex-works Mumbai
HSN CODE : 85365010 for all the products of this MRP List
GST : 18%

Prices are subject to revision without notice and ruling at the time of delivery.

This price list supersedes all previous Price Lists.

Warranty Policy : TEKNIC equipment is guaranteed under the following terms:

For a period of 12 months from the date of sale, TEKNIC guarantees that its products are free from defects in material and workmanship, with the exception of consumables rendered unserviceable through normal use. During the said period, TEKNIC will replace or repair all parts acknowledged as defective due to factory workmanship and which have been returned in a timely manner by Buyer to TEKNIC and all costs and duties paid, together with a detailed description of the failure and a certified declaration of the number of hours of operation. Repaired or replaced parts will be redelivered FCA (named place) as per INCOTERMS 2000. This warranty is subject to the provision of correct usage, proper maintenance and does not cover defects arising out of fire, faulty operation, accident, inefficient maintenance and willful or accidental damage.

TEKNIC guarantee applies to all equipment, parts and components stored, installed, protected, maintained and used in accordance with TEKNIC specifications and instructions, and respecting the rules for normal use, without any modification by Buyer.

All other conditions or warranties, whether express or implied, relating to the quality and operation of the equipment are excluded, as well as any liability for loss or damage caused directly or indirectly by the equipment or resulting from its use.

Proof of purchase to be provided to avail warranty.

TEKNIC ELECTRIC (I) PVT. LTD.

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Email : teknico@teknico.co.in mfg@teknico.co.in Website : www.teknico.co.in