

LOW TENSION CURRENT TRANSFORMERS (LTCT)

ACCURATE CURRENT MEASUREMENT SOLUTIONS
FOR METERING, MONITORING & PROTECTION

Low Tension Current Transformers (LTCTs) are instrument transformers designed to step down high AC currents at low voltages (< 1000V) to standard secondary currents of 5A or 1A for safe measurement, monitoring and protection.

LTCTs provide electrical isolation and accurate current sensing for energy meters, digital panel meters, power analyzers, protection relays, APFC panels, industrial automation systems and more.

Available in multiple types and sizes with primary current range from 30A to 5000A and standard secondary current 5A or 1A.



UNITECH

POWERING SOLUTIONS. CONNECTING WORLDS.



SWITCHGEAR



TRANSFORMERS



CONTROL PANELS



GLOBAL EXPORTS



SWITCHGEAR



TRANSFORMERS



CONTROL PANELS



GLOBAL EXPORTS



CMCT ROUND
TYPE CT COIL



CMCT SQUARE
TYPE CT COIL

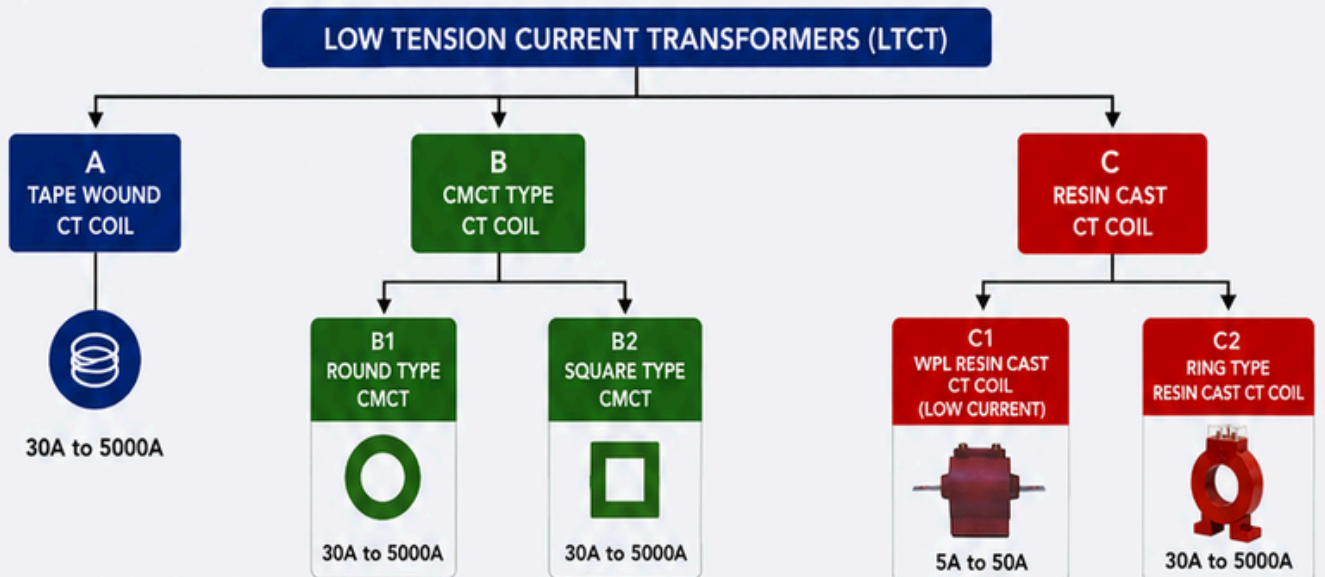


RING TYPE
RESIN CAST CT COIL



WPL RESIN CAST
CT COIL

PRODUCT RANGE & HIERARCHY



APPLICATIONS



ENERGY
METERING



POWER
MONITORING



DIGITAL
PANEL METERS



PROTECTION
RELAYS



APFC
PANELS



INDUSTRIAL
AUTOMATION



SWITCHGEAR &
DISTRIBUTION
PANELS



DG
SYNCHRONIZATION
PANELS



RENEWABLE
ENERGY
SYSTEMS



UTILITY
METERING
APPLICATIONS

TECHNICAL HIGHLIGHTS

Primary Current Range	: 30A to 5000A
Secondary Current	: 5A / 1A
Accuracy Class	: 0.2S, 0.5, 1.0
Burden (VA)	: 2.5VA, 5VA, 10VA, 15VA
Frequency	: 50Hz / 60Hz
Insulation Level	: 0.66 / 1.1kV
Dielectric Strength	: 3kV AC / 1 min
Standards	: IS 2705 / IEC 61869



HIGH ACCURACY
& LINEARITY



EXCELLENT
INSULATION



WIDE CURRENT
RANGE



COMPACT &
RELIABLE



EASY INSTALLATION
& MAINTENANCE

TAPE WOUND LT CT

PRODUCT DEFINITION

Tape Wound LT CT is a low tension current transformer designed for accurate measurement, monitoring, and protection in electrical systems.

Compact, Reliable & Easy to Install.



ACCURACY CLASS
OPTIONS

Class 0.5, Class 1



SECONDARY OUTPUT
OPTIONS

1A / 5A

Secondary Current



VA BURDEN

As per Requirement



HIGH ACCURACY &
RELIABLE PERFORMANCE

Designed for precise measurement,
monitoring & protection.

RATING & SIZE CHART

RATING (PRIMARY CURRENT)	SIZE e)	INNER DIAMETER (ID) (mm)	OUTER DIAMETER (OD) (mm)	WIDTH (W) (mm)
30/5A to 200/5A	1	35	75	35 – 75
250/5A to 400/5A	2	55	95	55 – 95
500/5A to 700/5A	3	65	105	65 – 105
800/5A to 1000/5A	4	85	125	85 – 125
1200/5A to 1500/5A	5	105	145	105 – 145
2000/5A to 3000/5A	6	120	165	120 – 165

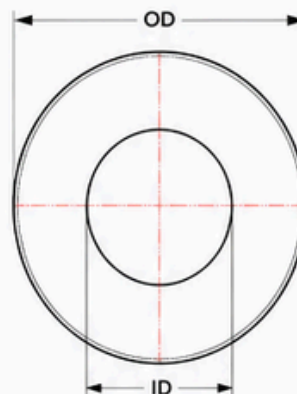
Note: Other ratios and sizes available on request.

TECHNICAL SPECIFICATIONS

Standards	IS 2705 / IEC 61869
Insulation Level	0.66 / 3kV
Frequency	50Hz / 60Hz
Rated Short Time Thermal Current (I _{th})	60 x I _n / 1 sec
Rated Dynamic Current (I _{dyn})	2.5 x I _{th}
Operating Temperature	-5°C to +55°C
Dielectric Strength	3kV AC / 1 min
Secondary Output	1A or 5A
Accuracy Class Options	Class 0.5, Class 1
VA Burden	As per Requirement

AUTO CAD DRAWINGS (All Dimensions in mm)

FRONT VIEW



SIDE VIEW



ID : Inner Diameter
OD : Outer Diameter
W : Width

CMCT ROUND

PVC ENCAPSULATED CURRENT TRANSFORMERS

CMCT Round PVC Encapsulated Current Transformers are compact, lightweight and accurate current sensors designed for measurement and protection in low tension electrical systems. Encapsulated in high quality PVC for superior insulation, safety and long life.



UNICMR35



UNICMR65



UNICMR85



UNICMR115

TECHNICAL SPECIFICATIONS



ACCURACY CLASS OPTIONS

- Class 0.5
- Class 0.5S
- Class 1
- Class 5P10
- Class 5P20



SECONDARY CURRENT

- 1A
- 5A



MOUNTING

Busbar /
Cable
Mounted



APPLICATION

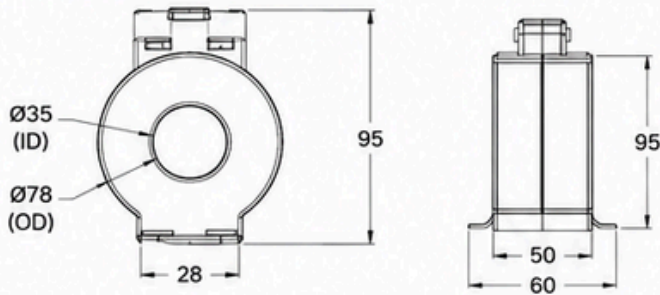
Metering &
Protection



FEATURES

- Compact & Lightweight
- High Accuracy
- High Mechanical Strength
- Excellent Insulation
- Easy Installation

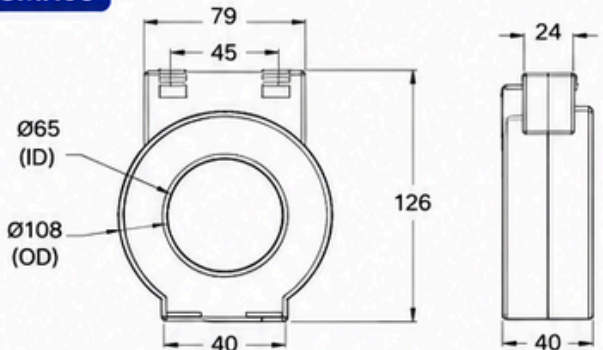
UNICMR35



CT RATIO (Primary Current)	INNER DIA (ID) mm	OUTER DIA (OD) mm	WIDTH mm	CURRENT RANGE (Primary)
50A - 300A	35	78	50	50A - 300A

* Detailed burden matrix available on request.

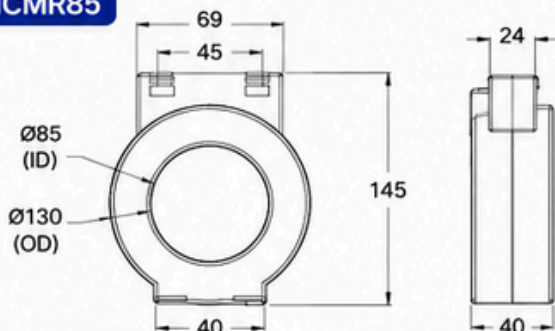
UNICMR65



CT RATIO (Primary Current)	INNER DIA (ID) mm	OUTER DIA (OD) mm	WIDTH mm	CURRENT RANGE (Primary)
100A - 1000A	65	108	40	100A - 1000A

* Detailed burden matrix available on request.

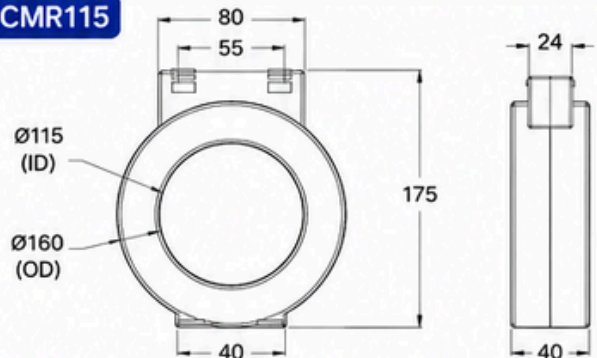
UNICMR85



CT RATIO (Primary Current)	INNER DIA (ID) mm	OUTER DIA (OD) mm	WIDTH mm	CURRENT RANGE (Primary)
200A - 2000A	85	130	40	200A - 1000A

* Detailed burden matrix available on request.

UNICMR115



CT RATIO (Primary Current)	INNER DIA (ID) mm	OUTER DIA (OD) mm	WIDTH mm	CURRENT RANGE (Primary)
600A - 4000A	115	160	40	600A - 4000A

* Detailed burden matrix available on request.

NOTE

While ordering please mention inner diameter, outer diameter, ratio, class & VA burden to avoid any confusion.
Other Ratios, Burdens and Accuracy Classes Available on Request.

CMCT SQUARE

PVC ENCAPSULATED CURRENT TRANSFORMERS

CMCT Square PVC Encapsulated Current Transformers are compact, lightweight and accurate current sensors designed for measurement and protection in low tension electrical systems. Encapsulated in high quality PVC for superior insulation, safety and long life.



UNI3210



UNI3212



UNI4210



UNI6215

TECHNICAL FEATURES



ACCURACY CLASS OPTIONS

- Class 0.5
- Class 1.0
- Class 3.0



SECONDARY CURRENT

- 1A
- 5A



MOUNTING

Panel /
Busbar
Mounted



APPLICATION

Metering &
Protection



INSULATION

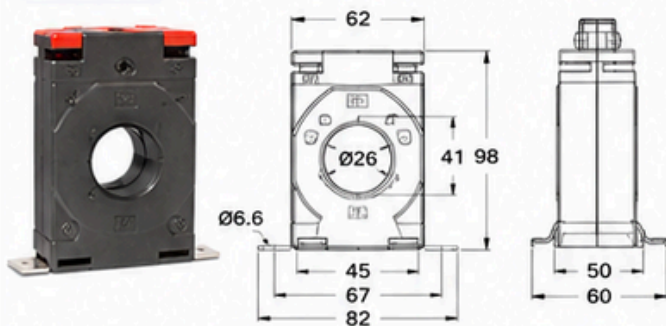
PVC
Encapsulated



FEATURES

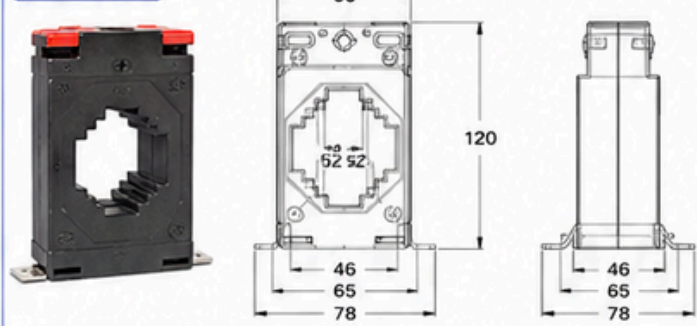
- Compact & Lightweight
- High Accuracy
- High Mechanical Strength
- Excellent Insulation
- Easy Installation

UNI3210



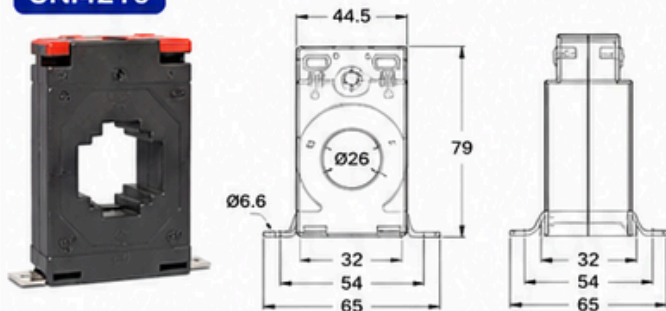
PRIMARY CURRENT (A)	1C CABLE SIZE (UP TO)	BUS BAR SIZE	BURDEN IN VA			
			CLASS	0.2S/0.5S	0.5	1.0
40 - 80	400 sq.mm	40 x 10 mm	-	-	-	1VA
100 - 200	400 sq.mm	40 x 10 mm	1VA	-	1.5VA	3.75VA
250 - 400	400 sq.mm	40 x 10 mm	2.5VA	2.5VA	5VA	10VA
500 - 600	400 sq.mm	40 x 10 mm	5VA	5VA	10VA	15VA

UNI3212



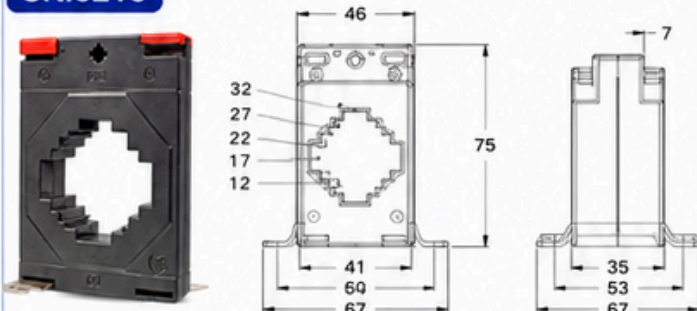
PRIMARY CURRENT (A)	1C CABLE SIZE (UP TO)	BUS BAR SIZE	BURDEN IN VA			
			CLASS	0.2S/0.5S	0.2	1.0
100 - 150	800 sq.mm	60 x 12 mm	-	-	1VA	1VA
200 - 250	800 sq.mm	60 x 12 mm	-	-	1.5VA	1.5VA
300 - 400	800 sq.mm	60 x 12 mm	1VA	1VA	2.5VA	2.5VA
500 - 600	800 sq.mm	60 x 12 mm	2.5VA	2.5VA	5VA	5VA
750 - 1600	800 sq.mm	60 x 12 mm	5VA	5VA	10VA	15VA

UNI4210



PRIMARY CURRENT (A)	1C CABLE SIZE (UP TO)	BUS BAR SIZE	BURDEN IN VA			
			CLASS	0.2S/0.5S	0.5	1.0
100 - 150	200 sq.mm	30 x 10 mm	1.25	2.5	5.0	-
200 - 250	200 sq.mm	30 x 10 mm	2.5	5.0	7.5	-
300 - 400	200 sq.mm	30 x 10 mm	2.5	5.0	7.5	-

UNI6215



PRIMARY CURRENT (A)	1C CABLE SIZE (UP TO)	BUS BAR SIZE	BURDEN IN VA			
			CLASS	0.2S/0.5S	0.2	1.0
100 - 150	200 sq.mm	30 x 10 mm	1.25	2.5	5.0	-
200 - 250	200 sq.mm	30 x 10 mm	2.5	5.0	7.5	-
300 - 400	200 sq.mm	30 x 10 mm	2.5	5.0	7.5	-

NOTE:

While ordering please mention inner diameter, outer diameter, ratio, class & VA burden to avoid any confusion.
Other Ratios, Burdens and Accuracy Classes Available on Request.

WPL RESIN CAST CT COIL

ACCURATE | RELIABLE | SAFE

WPL Resin Cast CT Coil is an encapsulated current transformer designed for accurate measurement and protection in electrical systems. It is compact, reliable and suitable for a wide range of industrial applications.

CURRENT TRANSFORMERS ENCAPSULATED RECT TYPE CT (BPL)

A. BAR TYPE



B. TERMINAL TYPE



ACCURACY OPTIONS

- Class 0.5
- Class 1
- Class 5P20



SECONDARY CURRENT OPTIONS

- 1A
- 5A



PRIMARY CURRENT RATING

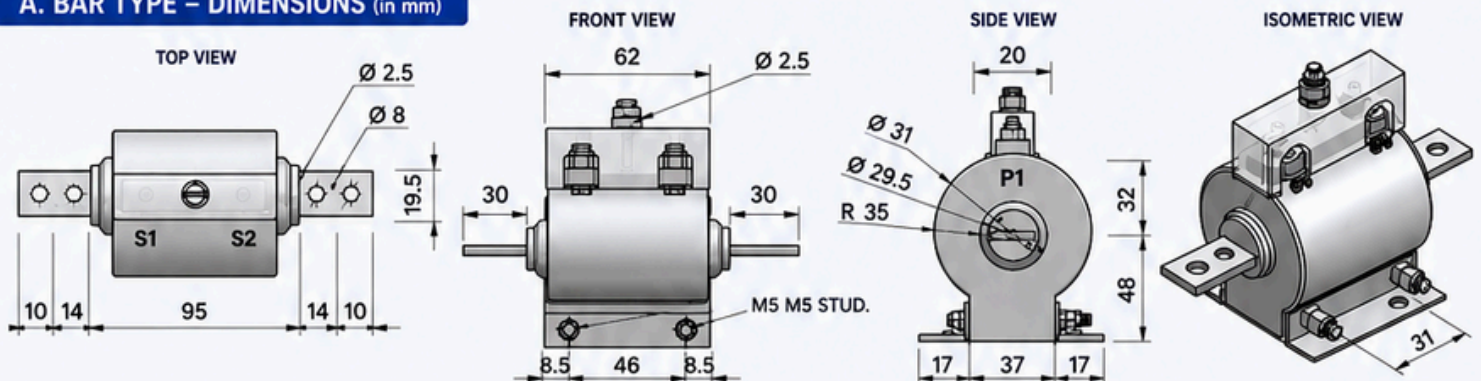
5A, 10A, 15A, 20A,
25A, 30A, 50A,
60A, 100A



RELIABLE & DURABLE

Encapsulated in high quality resin for superior insulation, mechanical strength and long life.

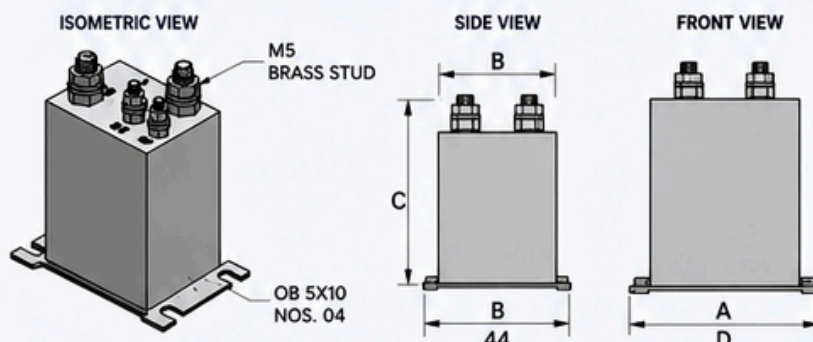
A. BAR TYPE – DIMENSIONS (in mm)



PRIMARY CURRENT	DIMENSIONS (mm)		
	LENGTH	WIDTH	HEIGHT
5 – 20	150	75	100
25 – 50	150	75	100
60 – 100	150	75	100

Note: Other ID & accuracy classes available as per customer requirement. All dimensions are in mm.

B. TERMINAL TYPE – DIMENSIONS (in mm)



PRIMARY CURRENT	DIMENSIONS (mm)				PRIMARY BRASS STUD SIZE
	A	B	C	D	
2.5 – 20	70	55	100	100	M8
25 – 50	70	55	100	100	M8
60 – 100	70	55	100	100	M10

Note: Other ID & accuracy classes available as per customer requirement. All dimensions are in mm.



HIGH ACCURACY
& RELIABILITY



EXCELLENT
INSULATION



WIDE CURRENT
RANGE



COMPACT &
LIGHTWEIGHT



EASY INSTALLATION
& MAINTENANCE

RESIN CAST LT CT

Ring Type & Rectangular Type Current Transformers
for Metering and Protection Applications

Resin cast LT CT (Low Tension Current Transformer) is an encapsulated current transformer designed for accurate measurement and protection in low tension electrical systems. It is compact, reliable and suitable for a wide range of metering and protection applications.

TYPE A – RING TYPE CT

Current Range: 100A to 800A



TYPE B – RECTANGULAR TYPE CT

Current Range: 400A to 6000A



TECHNICAL SPECIFICATIONS



ACCURACY CLASS OPTIONS

- Class 0.5
- Class 0.5S
- Class 1
- Class 5P10
- Class 5P20
- Class PS



SECONDARY CURRENT OPTIONS

- 1A
- 5A



FREQUENCY

50 Hz

INSULATION CLASS

E Class

ENCLOSURE

Epoxy Resin Cast



MOUNTING

Panel / Busbar Mounted

STANDARD

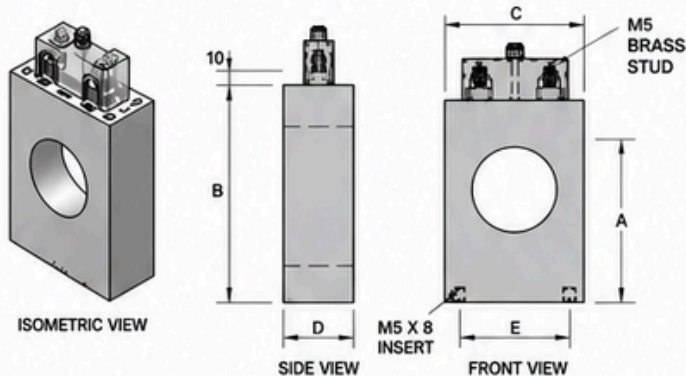
IS / IEC Compliant



APPLICATION

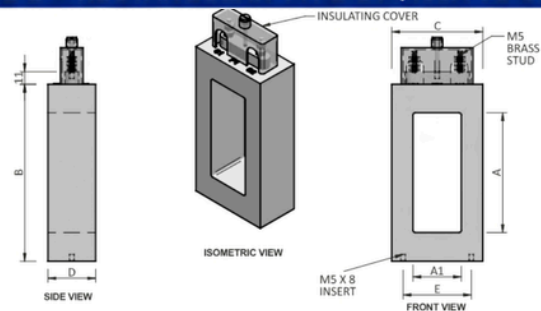
Metering, Protection & Monitoring

TYPE A – RING TYPE CT (UP TO 800A)



PRIMARY CURRENT (AMP)	TYPE	ID A	OD BxC	HEIGHT D	MOUNTING HOLE CENTER E
100	RING	30	80×80	35	65
150	RING	30	80×80	35	65
200	RING	35	80×80	35	55
250	RING	45	80×80	35	65
300	RING	45	80×80	35	65
400	RING	45	80×80	35	65
500	RING	55	110×110	35	65
600	RING	55	110×110	35	70
800	RING	70	110×110	35	85

TYPE B – RECTANGULAR TYPE CT (400A TO 6000A)



PRIMARY CURRENT (AMP)	TYPE	ID A	OD BxC	HEIGHT D	MOUNTING HOLE CENTER E
400	RECTANGULAR	45×30	115×80	35	40
500	RECTANGULAR	65×30	125×80	35	40
600	RECTANGULAR	65×30	125×80	35	40
800	RECTANGULAR	85×30	145×80	35	40
1000	RECTANGULAR	110×30	170×80	35	40
1200	RECTANGULAR	110×30	170×80	35	60
1500	RECTANGULAR	110×50	170×100	35	60
1600	RECTANGULAR	110×50	170×100	35	60
2000	RECTANGULAR	110×50	170×100	35	60
2500	RECTANGULAR	130×50	190×100	35	60
3000	RECTANGULAR	160×50	220×100	35	106
3200	RECTANGULAR	160×50	220×100	35	106
4000	RECTANGULAR	160×80	220×130	35	106
5000	RECTANGULAR	230×80	310×160	35	100
6000	RECTANGULAR	230×100	310×180	35	100

Note: Other ID & accuracy classes available as per customer requirement.



UNITECH

POWERING SOLUTIONS. CONNECTING WORLDS.



SWITCHGEAR



TRANSFORMERS



CONTROL PANELS



GLOBAL EXPORTS

OUR OTHER PRODUCT RANGE

Complete Electrical Measurement, Protection & Energy Management Solutions

DIGITAL PANEL METERS



- V AC Volt Meter
- V DC Volt Meter
- A AC Amp Meter
- A DC Amp Meter
- Hz Frequency Meter
- PF PF Meter
- W Watt Meter
- AVF AVF Meter

MULTI FUNCTION & ENERGY METERS



- Multifunction Meter (MFM)
- Energy Meter
- Dual Source Energy Meter
- DC Energy Meter
- RS485 MODBUS Enabled Meters

RELAYS & PROTECTION



- Voltage Monitoring Relay
- Earth Leakage Relay
- Motor Protection Relay
- Single Phase Preventer
- Water Level Controller
- Astronomical Time Switch

PROCESS INDICATORS



- 4-20mA Indicators
- 0-10V Indicators
- Process Controllers
- Signal Transducers

MAXIMUM DEMAND CONTROLLER



- Demand Control
- Load Management
- Peak Load Monitoring
- Energy Cost Reduction

EMS & SCADA SOLUTIONS



- Real-Time Monitoring
- Cloud Dashboard
- IoT Gateway
- Mobile App
- Data Analytics
- Alarm Notifications

UNITECH PRODUCT PORTFOLIO



INSTRUMENT TRANSFORMERS

- CMCT Round CT
- CMCT Square CT
- Resin Cast CT
- WPL CT
- CBCT
- HT CT/PT Units



DIGITAL
PANEL METERS



MULTI FUNCTION
METERS



ENERGY
METERS



RELAYS &
PROTECTION
SYSTEMS



DC
SHUNTS



EMS & SCADA
SOLUTIONS



SCAN QR CODE

TO VIEW OUR COMPLETE
PRODUCT CATALOGUE

- Current Transformers
- Digital Panel Meters
- Energy Meters
- Relays & Protection
- DC Shunts
- EMS & SCADA Solutions

CONTACT US

UNITECH ENGINEERS (INDIA)

- SK-63 Sindhoran Kalan,
New Delhi - 110052, India
- +91-9560040097
- +91-8368039251
- energy@unitechengg.com
- nishitksehgal@satyaepl.com
- www.unitechengg.com

PRECISION IN POWER. EXCELLENCE IN EVERY CONNECTION.

Manufacturer of Instrument Transformers, Digital Panel Meters, Protection Relays,
Energy Monitoring Systems & Industrial Automation Solutions.