

Westinghouse



Instrument Transformers

Current, Potential, Metering Units

Instrument Transformer Selector Guide

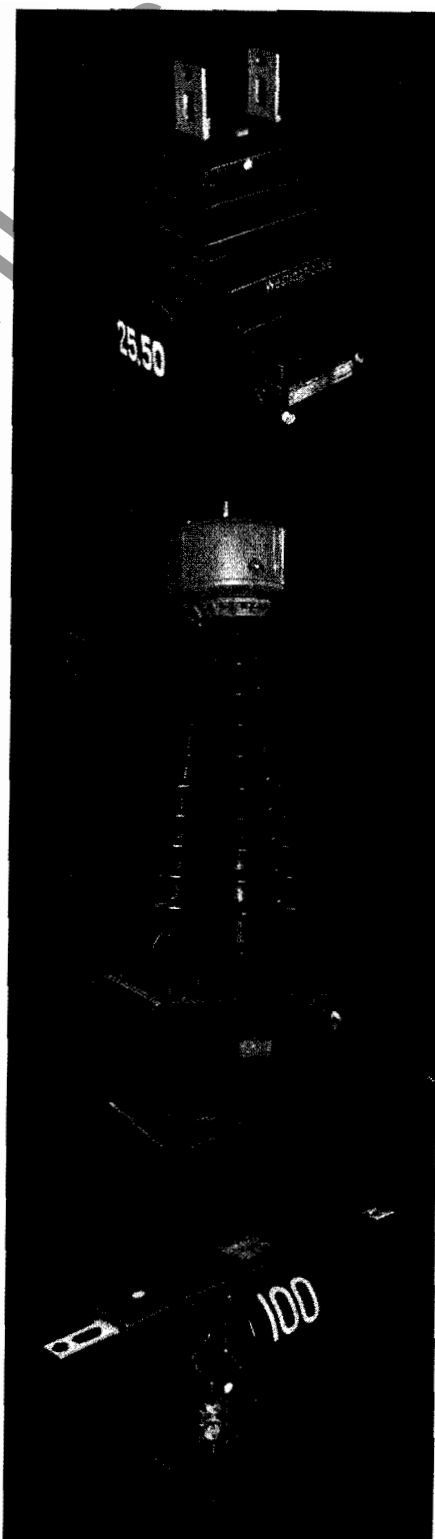
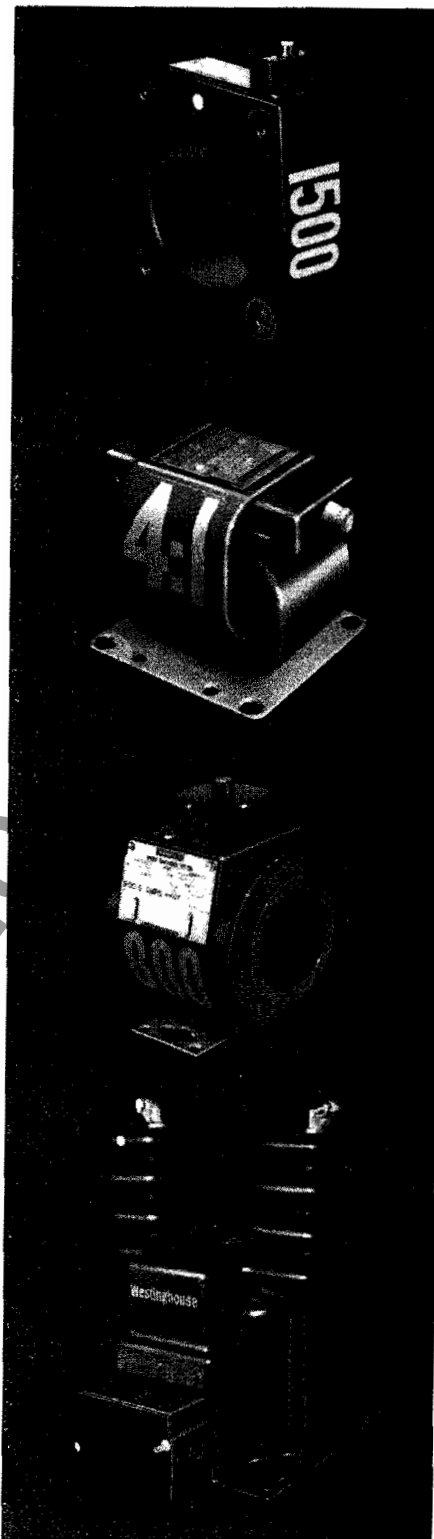
To assist in the selection of current and potential transformers, listed on the following pages are brief pictorial descriptions of each available type and its application. You will find this to be one of the most complete lines of instrument transformers on the market today. If, for some reason, the specific type you require is not shown, please refer to your nearest Westinghouse representative.

Further Information

Prices: Current and potential 600-25000 volts, see Price List 44-020.

Prices: Current and potential 25 kv and above, see Price List 44-021.

Technical Data: All types, see Technical Data 44-060.



October, 1967
 Supersedes Selector Guide 44-000 dated December, 1965.
 E, D, C/2045-2048/PL, DB, DS

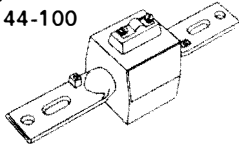
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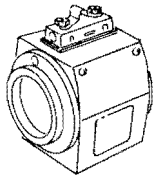


Current Transformers

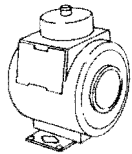
RTM-10 Indoor
600 Volts
200 Thru 800 Amps
Descriptive Bulletin 44-100



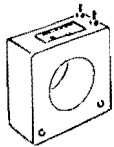
CSB-10 Indoor, Outdoor
600 Volts
200, 400, 600 Amps
Descriptive Bulletin 44-102



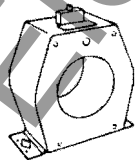
CTR Indoor, Outdoor
600 Volts
200 Thru 800 Amps
Descriptive Bulletin 44-108



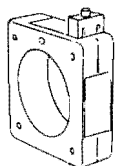
ECI Indoor
600 Volts
100 Thru 800 Amps
Descriptive Bulletin 44-112



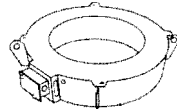
EMC Indoor, Outdoor
600 Volts
800 Thru 4000 Amps
Descriptive Bulletin 44-116



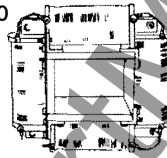
CLA-10 Indoor, Outdoor
600 Volts
800 Thru 4000 Amps
Descriptive Bulletin 44-118



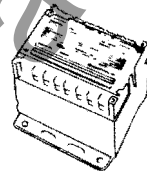
Bushing Current Transformers
23 Thru 196 Kv
Descriptive Bulletin 44-119



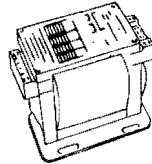
FB Indoor
600 Volts
5000 Thru 75000 Amps
Descriptive Bulletin 44-120



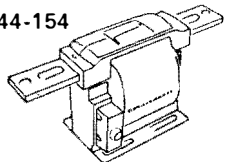
Type A Indoor
600 Volts
Current Balancing
Autotransformer
Descriptive Bulletin 44-128



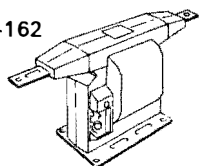
Auxiliary Indoor
600 Volts
Current or Potential
Transformer
Descriptive Bulletin 44-132



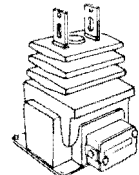
ECT Indoor
5000 Volts
10 Thru 1200 Amps
Descriptive Bulletin 44-154



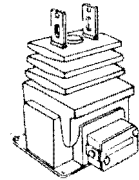
CTM and CT-25 Indoor
5000 Thru 25000 Volts
5 Thru 800 Amps
Descriptive Bulletin 44-162



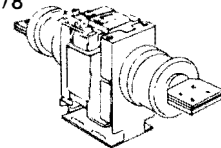
CTOM Outdoor
5000 Thru 15000 Volts
5 Thru 800 Amps
Descriptive Bulletin 44-170



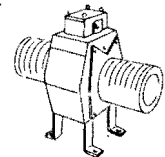
CTOM-150 Outdoor
25000 Volts
10 Thru 600 Amps
Descriptive Bulletin 44-172



UP Indoor
5000 Thru 25000 Volts
1000 Thru 5000 Amps
Catalog Section 44-178



EMC Outdoor
5000 Thru 15000 Volts
800 Thru 4000 Amps
Descriptive Bulletin 44-184



OCT Outdoor
25 Kv Thru 69 Kv
10x20 Thru 1500x3000 Amps
Descriptive Bulletin 44-254



ACT Outdoor
92 Kv and Above
10x20 Thru 1500x3000 Amps
Descriptive Bulletin 44-258



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Instrument Transformers

Selector Guide For OEM Applications,
0.6 Kv – 25 Kv

Current Transformers

Type	Nominal Primary Current Ratings	Application	Further Information
600 Volt System Application			
ECI (Rubber Molded)	100-800 amps	Window type, Indoor, Indicating Accuracy.	PL 44-520, pages 1-2
CTR (Rubber Molded)	200-800 amps ^①	Window Type, Indoor/Outdoor, Revenue Metering Accuracy.	DB 44-108
LRM (Rubber Molded)	800-4000 amps ^①	Window Type, Indoor, Revenue Metering Accuracy, Medium Relaying Capability	PL 44-520, pages 3-4
EMC (Rubber Molded)	800-4000 amps	Window Type, Indoor/Outdoor, Revenue Metering Accuracy, Heavy Relaying Capability	DB 44-116
Auxiliary (Tape Insulated)	See DB 44-132 For available ratings	Indoor, Multi-Ratio Metering Accuracy, Medium Relaying Capacity	DB 44-132
5000-15,000 Volt System Application			
ECT-5 (Rubber Molded)	5-1200 amps	Bar type, Indoor, Revenue Metering Accuracy, Medium Relaying Capability (5 kv only)	PL 44-520, page 5
CTM-5, 8.7, 15 (Rubber Molded)	5-800 amps	Bar type, Indoor, Revenue Metering Accuracy, Heavy Relaying Capability	PL 44-520, pages 6-7
RCT-5, 9, 15 (Tape Insulated)	5-3000 amps	Window type, 600 volt class insulation for use on 5-15 kv insulated bus or cable, Indoor	PL 44-520, pages 8-9
25,000 Volt System Application			
CT-25 (Tape Insulated)	5-800 amps	Bar type, Indoor, Revenue Metering Accuracy, Heavy Relaying Capacity	Refer to Westinghouse

Potential Transformers

Type	Nominal Primary Voltage Ratings	Application	Further Information
EMP (Rubber Molded)	120-600 volts	Indicating, Light Relay Burdens	PL 44-520, page 10
EMPL ^② (Rubber Molded)	120-600 volts	Revenue Metering Accuracy, Heavy Relay Burdens	PL 44-520, pages 11-12
PTM-5, 8.7, 15 ^② (Rubber Molded)	2400-15,000 volts	Revenue Metering Accuracy, Heavy Relay Burdens	PL 44-520, pages 13-14
PT-25 (Compound Filled)	15,000-25,000 volts	Revenue Metering Accuracy, Heavy Relay Burdens	Refer to Westinghouse

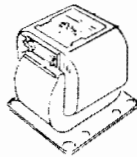
① Available with tapped secondary and with primary bar.
② Available with fuses.

Instrument Transformers

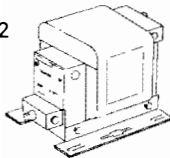
Current, Potential, Metering Units

Potential Transformers

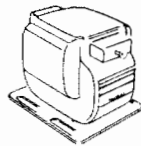
EMP Indoor, Outdoor
240 Thru 600 Volts
Descriptive Bulletin 44-200



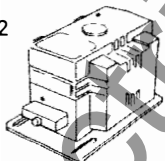
PXA-10 Indoor, Outdoor
240 Thru 600 Volts
Descriptive Bulletin 44-202



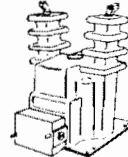
EMPL Indoor, Outdoor
240 Thru 600 Volts
Descriptive Bulletin 44-204



PTM and PT-25 Indoor
2400 Thru 25000 Volts
Descriptive Bulletin 44-212



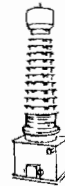
PTOM Outdoor
2400 Thru 14400 Volts
Descriptive Bulletin 44-216



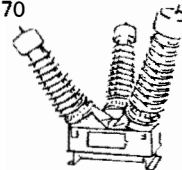
PTOM-150 Outdoor
14400 Thru 24000 Volts
Descriptive Bulletin 44-218



APT Single Phase Outdoor
14400 Volts and Above
Descriptive Bulletin 44-264
and 44-266

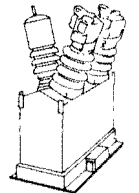


APT Three Phase Outdoor
92000 Thru 161000 Volts
Descriptive Bulletin 44-270



Metering Units

FMU Outdoor
24000 Thru 138000 Volts
10x20 Thru 400x800 Amps
Descriptive Bulletin 44-300



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Instrument Transformers

Current, Potential, Metering Units

Instrument Transformer Type Designation Key

To be used on future designs not already designated.

Type of Transformer and Service 15 Kv and Below—Current Transformers

Outdoor.....C
Indoor.....I

15 Kv and Below—Potential Transformers

Outdoor.....P
Indoor.....V

Above 15 Kv—Current Transformers

Outdoor.....K

Above 15 Kv—Potential Transformers

Outdoor.....O

Characteristics of Transformer Current Transformers

Bar Type.....B
Through Types
Round Hole 2" and Smaller.....S
Round Hole 2" to 5".....M
Round Hole Over 5".....L
Rectangular Hole.....R
Wound Type.....N
Indicating Type.....H

Potential Transformers

Accuracy Class
0.6.....W
0.3 through X.....X
0.3 through Y.....Y
0.3 through Z.....Z
0.3 through ZZ.....Z

Model Designation

New Design.....A
First Redesign.....B
Second Redesign.....C
Etc.

BIL Level

As Designated by Standards
10, 30, 45, 60.....900,
1050, 1175, etc.

Example:

C — Outdoor Current Transformer, Below
15 Kv
S — Through Type with Opening 2" or
Smaller
B — Model B, First Redesign
10 — 10 Kv BIL Insulation (600 Volt Class)

