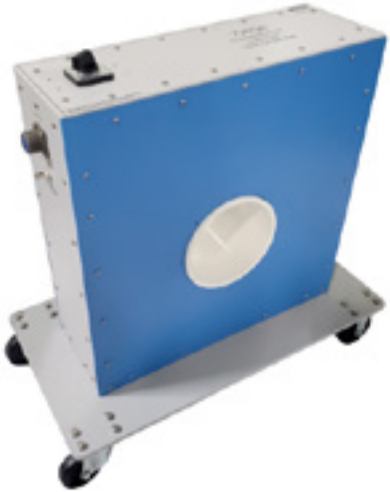




72XX SERIES OF PRECISION AC CURRENT TRANSFORMER



Featuring

- ▶ Reference Standard for the Calibration of Precision CTs
- ▶ Currents as high as 10000 A
- ▶ Portable with carrying handle for smaller CTs
- ▶ Wheels on heavier CTs
- ▶ Passive or Electronically Aided Compensation
- ▶ Division Ratio switchable from 1000:1 to 2000:1 and lower on smaller CTs
- ▶ Accuracy <0.0015% (magnitude), <0.0015% (phase)

Overview

The 72XX Series of Precision AC Current Transformers from Measurements International (MI) continues to follow the longstanding history of quality products. Current transformers are used extensively for measuring current and monitoring the operation of the

power grid by monitoring high currents at high voltages. Technical standards and design practices are used to ensure the safety of installations using current transformers.

Feature	Benefit
Wide Input Current Range	Extremely high linearity allows to cover a wide range of primary current values with the same CT.
Two-Stage Current Comparator Technology	Units with comparator output can be used either as Precision CT or as a Current Comparator in more complex systems.
Current Division Accuracy down to 15 parts in 10 ⁶	Satisfies most Laboratories requirements for scaling down AC currents.
“Zero” Long-Term Drift	Negligible drift permits users to extend the Calibration period between 3-5 years.
Electronically Aided Output with Compensated Input	The 7201ACT Model has multi-ratio compensated input for easy cascading and achieving overall division ratio up to 1000000 to 1.



72XX SERIES OF PRECISION AC CURRENT TRANSFORMER

The Model 72XX Series of Compensated Current Transformers uses passive, two-stage-compensated technology. The main advantage of a two-stage-compensated CT is that the effective burden is low when feeding into another compensated CT, such as the current input on the Model 2020A Wattmeter or input to MI Model 7010C Capacitance Bridge. As a result, the errors of the CT are effectively reduced to zero in both magnitude and phase. Lead length becomes unimportant, and there is no further concern for any additional active components.

Model 72XX housings consist of a ruggedized enclosure for the strength and protection required in industrial environments. The Model 7200A and 7201A are portable with handles. The Model 7202A and 7203A divide higher currents and are mounted on wheels for maneuverability on the test or lab floor, they can be cascaded for currents up to 10000 A for use in high-current environments such as CT test sets or the 7203A can handle 10000 A primary current with 5 A secondary current when used in 2000:1 ratio configuration.

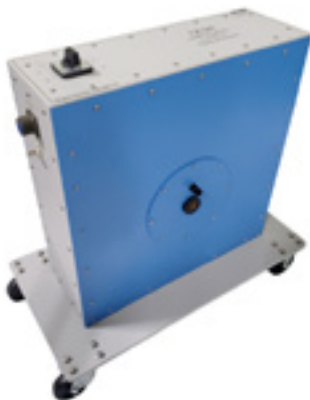
The Model 7201A is an electronically controlled current transformer and the Model 7200A is both a current transformer and a current comparator with detector output.



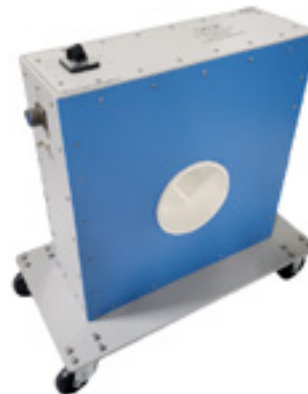
Model 7200 ACC
Passive Two-Stage-Compensated CT/Comparator



Model 7201 ACT
Electronically Aided CT Multiple Ratios



Model 7202 A
Multiple Ratio Standard CT



Model 7203 A
Multiple Ratio Standard CT



72XX SERIES OF PRECISION AC CURRENT TRANSFORMER

Specifications: Rev 0

AC Current Transformer	7200ACC		7201ACT				7202A				7203A	
Type	Passive Two-Stage Compensated Current Transformer/Comparator		Electronically Aided Current Transformer Multiple Ratios				Multiple Ratio Standard Current Transformer				Multiple Ratio Standard Current Transformer	
Compensated CT	Yes, Passive		Yes, Active				Yes, Passive				Yes, Passive	
Maximum Primary Current (A)	2000		100 (through window)				100		10		5000 (10000 A on 2000:1 only)	
Ratio (Selectable by Switch)	2000:1	1000:1	50:1	200:1	500:1	2000:1	200:1	100:1	20:1	10:1	2000:1	1000:1
Input Connection	2" (51mm) Window		1" (25.5mm) Window with 5 pin Circular Connector				TWECO Connector		Binding Posts		6" (153mm) Window	
Output Connection	Binding Post and Locking Connector		5 pin Circular Connector				5 pin Circular Connector				5 pin Circular Connector	
Maximum Burden (Ω)	1		1				1				1	
Ratio Error (parts per 10 ⁶)	± 15		± 15				± 15				± 15	
Phase Error (parts per 10 ⁶)	± 15		± 15				± 15				± 15	
Notes	Portable with Carrying Case		Battery Operated, Portable with Carrying Case				CT is Mounted on wheels for maneuverability				CT is mounted on wheels for maneuverability	
Test Frequency Range (Hz)	40 to 400		40 to 400				40 to 400				40 to 400	



Measurements International

Metrology is Our Science, Accuracy is Our Business™

72XX SERIES OF PRECISION AC CURRENT TRANSFORMER

Specifications: Rev 0

Model	Dimensions (LxWxH) (mm)	Weight (kg)	Shipping Weight (kg)
7200A	280 x 115 x 280	18	23
7201A	280 x 127 x 375	21	25
7202A & 7203A	650 x 340 x 650	70	80

The 72XX series can be used as an IEC / IEEE compliant stand-alone Standard current transformer for tests in National laboratories, Accredited laboratories or in transformer manufacturers.

The 72XX can also be used in setup with MI equipment to extend the Current measurement range:

- In HV capacitance, inductance and tangent-delta measurements with the Model 7010C HV Capacitance Bridge,
- In Loss Measurements on Reactors with the Model SR 7010 or ALMS AccuLoss® systems
- In Research and Development Institutes,
- In Calibration of Current Transformers (CT) Up to 10000 A with Model 7070A AC Ratio Bridge.

Operating Environment:

Temperature:
15°C to 40°C

Relative Humidity, non-condensing:
10% to 80%

Ordering Information:

Model 7200ACC Precision AC Current Transformer
 Model 7201ACT Precision AC Current Transformer
 Model 7202A Multi Ratio Standard Current Transformer
 Model 7203A Multi Ratio Standard Current Transformer
 Model 72XX CAL STD (Certificate of Calibration)
 Model 72XX CAL-17025
 (ISO/IEC 17025 Accredited Certificate of Calibration)

Options:

Model 7010C High Voltage Capacitance Bridge
 Model 7070A AC Ratio Bridge

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