

Precision Electronically Compensated Voltage Transformer CMR-U ™

Isolation voltage transformer for testing meters with interconnected current and voltage circuits

⇒ Highlights

- · DIN rail mounting possibility
- Accuracy class 0.05
- Elimination of residual capacitive current from the input to output
- Operation without external power supply
- Unity transfer ratio of the unit enables simple user test of functionality and accuracy
- Built-in short circuit, overload and misconnection protection
- Easy user-friendly mounting, negligible power consumption and built-in protection permit simple extension of any existing meter test equipment to closed I-P link testing capability

⇒ Description

The **Common Mode Rejecter** (CMR) is an electronically compensated uncoupling unit for elimination of interaction of simultaneously tested electricity meters having interconnected current and voltage circuits (closed I-P links).

The **Precision Electronically Compensated Voltage Transformer CMR-U** ™ is a universal small-sized electronically controlled precision voltage transformer for galvanically isolated voltage transmission. The unity voltage ratio is dedicated for testing single-phase electricity meters with closed current and potential circuits but its versatility enables utilization in extensive applications.

The built-in active shielding between input and output eliminates capacitive current from input side to the isolated output device.

The CMR-U 1110A is constructed as universally applicable standalone unit with easy implementation to any existing test bench system. The unit has negligible additional power loss therefore no power increase is needed for closed link capability.

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Precision Electronically Compensated Voltage Transformer CMR-U 1110A

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CMR-U units in Test Bench

⇒ Technical Specification

	CMR-U 1110A
Working Voltage Range	230 V ± 20% (110 V ± 20% option)
Frequency Range	45 - 65 Hz
Output / Input Voltage Ratio	1:1
Max. Output Current	50 mA (100 mA for 110 V option)
Max. Amplitude Error / Max. Phase Error (within Working Voltage Range)	0.05 % / 0.03 °
Max. Leakage Current	5 μΑ
Power Supply	From input signal (no extra supply needed)
Internal Power Consumption	< 2 VA
Protection	Overload, Short Circuit, Misconnection
Size (W x D x H)	155 x 140 x 90 mm
Weight (approx.)	2 kg