## 7020 COMPENSATED CURRENT TRANSFORMER



### **Featuring**

- Single Range
- Highest Permeability
- Wide Measurement Range
- Negligible Current Errors
- High Accuracy

### Overview

7020 Compensated Current Transformer was originally developed as an extender for MIL 2010A and 7010B Models. where the accuracy over the full range is important. It is also suitable to be used as a Standard Current Transformer for CT Test Sets, or for measuring range extension for Tan Delta measurements of high capacitance & low-inductance values using the Model 7010C High Voltage Capacitance Bridge. The Model 7020, using two-stage compensated technology, has 50% overrange capability. advantage The main of а 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 Cx & Cxp input to MI 7010C HV 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. The Model 7020 CT housing consists of a ruggedized enclosure for the strength and protection required in industrial environments. Output connections are provided by 5-way binding posts on the top for easy and quick connections and a locking connector on the side for a permanent connection.

Feature	Benefit	
Two stage compensated CT	Effectively reduces the CT errors and cabling effects to zero	
Passive compensation	Does not require any power supply or internal electronics	
Wide current range	Allows same accuracy within large current span, without range switching	

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**Specifications:** Rev 2

Model 7020 Compensated Current Transformer		
Current Range (A) (allows 50% overrange)	2000 down to 10	
Nominal Ratio	2000 : 1 or 1000:1	
Magnitude Error (parts per 106)	< ± 20	
Phase Error (µrad)	< ± 20	
Maximum Burden (Ω)	1	
Input Connection	4-inch (102 mm) window	
Output Connection	5-way Binding Post or Locking Connector	
Mechanical	CT is mounted on wheels for maneuverability	

The 7020 CT can be used as an IEC/IEEE compliant standalone standard current transformer for tests in National Laboratories, Accredited Laboratories or in transformer manufacturers facilities. The Model 7020 is supplied as single 2000:1 or 1000:1 ratio device. For other ratios please contact Measurements International at sales@mintl.com.

#### **Ordering Information**

Model 7020 Current Transformer Model 7020 CAL STD (Certificate of Calibration) Model 7020 CAL - 17025 (ISO/IEC 17025 Accredited Certificate of Calibration)

### **Optional Equipment**

Model 7010C High Voltage Capacitance Bridge Model 2020A Wattmeter Model 7070A Ratio Bridge

Dimensions (L × W × H): Weight: **Shipping Weight:** 635 x 330 x 584 (mm) 64 kg 82 kg

**Mains Power:** Temperature: Relative Humidity, non-condensing: N/A 15°C to 40°C 10% to 80%

Phone: +(420) 731-440-663

Email: sales@mintl.com

**Corporate Headquarters** Measurements International

PO Box 2359, 118 Commerce Drive Phone: 407-706-0328 Prescott, Ontario, Canada K0E 1T0 Email: sales@mintl.com

Phone: 613-925-5934 Fax: 613-925-1195 Email: sales@mintl.com

Toll Free: 1-800-324-4988

**Worldwide Offices** MI-USA

**MI-China** 

Email: sales@mintl.com

MI-Japan

Phone: +(81) 72 39 64 660 Phone: +(86) 10-64459890 Email: kaz@mijpn.com

MI-India

Phone: +(91) 98 10 134 932 Email: sales@MILLP.co.in



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