

Electronic Potential Divider



FEATURES

- Provides flexibility of various VT ratios
- Eliminates the need to have several Standard VTs
- Small Ratio and Phase Errors 0.05% ± 2 mins
- Models operating at higher voltages are available.
- Protected against transients and overload conditions.

APPLICATIONS

The EPD with its auxiliaries is intended to be used as a standard for calibrating voltage transformers or for general measurements of high voltage at power frequency (50/60 Hz). The 2570 Electronic Potential Divider (EPD) is an amplifier aided capacitance divider providing an accurate ratio over an output range of 50 to 140 volts. The basic divider configuration requires a high voltage capacitor of suitable capacitance and voltage rating in addition to the Electronic Potential Divider described herein.

The EPD contains a precision ratio divider and a solid state power amplifier to provide up to 12 VA at 120 volts. The instrument is protected against transients and overload conditions.

S P E C I F I C A T I O N S

ELECTRICAL SPECIFICATIONS

MECHANICAL SPECIFICATIONS

Line Power : 110/230 volts, 50/60 Hz, 50 VA	Dimensions	: 17" WIDE, 5" HIGH, 19" DEEP (430 x130 x480mm)
Output Rating : 50-140 volts, 0.1 amperes.	Weight	: 24 lbs. (11 kg), approximately
Ratio Settings : Multiplier + two dials + 10T potentiometer	Temperature Range : -10° C to 50 $^{\circ}$ C	
Accuracy : $\pm 0.05\%$ and 2 minute at rated condition.	Humidity	: Ambient to 90% RH

ADDITONAL SPECIFICATIONS

Isolation	:	The EPD provides ISOLATION between input and output. Input is referenced with respect to the case ground. The output is floating and either terminal may be grounded to local or Relocate ground.
Polarity	:	The output of the EPD is in phase with the input.
Accuracy	:	Specified accuracy is obtainable when the EPD is calibrated With its high voltage capacitor.
Ratios	:	Ratios are adjustable over a 12 to 1 range of on each multiplier. The accuracy applies over a 12 to 3 range of ratios on each multiplier.
Low Ratio Multiplier	:	Each EPD is equipped with a Low Range with a multiplier of 0.05. This Range provides ratios of 1 6 to 1. This multiplier is provided from a separate differential input.
Multipliers	:	The EPD is typically equipped with three multipliers in addition to the low ratio multiplier. The multipliers are selected in such a way that the instrument can be easily self checked and calibrated with minimal test equipment.

AVAILABLE ACCESSORIES

Eltel Industries can offer the Automatic Instrument/Voltage Transformer Test Sets, Potential Burdens as per National/International Standards (with suitable Input Voltages) and Standard Capacitors for use with the EPD.

OPTIONAL ACCESSORY

The Electronic Potential Divider can be supplied with a Range Extender (1:2). This facilitates user to Test VTs upto 190% of the rated voltage using EPD.

ORDERING INFORMATION

САТ	RATIO					
Cat. No. 2570	Ratio: 16 to 1					
Cat. no. 2570-1	Ratio: 16 to 1	1030 to 1	2060 to 1	40120 to 1		
Cat. no. 2570-2	Ratio: 16 to 1	2060 to 1	60180 to 1	180540 to 1		
Cat. no. 2570-3	Ratio: 16 to 1	40120 to 1	100300 to 1	200600 to 1		
Cat. no. 2570-4	Ratio: 16 to 1	60180 to 1	120360 to 1	240720 to 1		
Cat. no. 2570-5	Ratio: 16 to 1	100300 to 1	200600 to 1	4001200 to 1		
Cat. no. 2570-6	Ratio: 16 to 1	120360 to 1	300900 to 1	6001800 to 1		
Cat. no. 2570-7	Ratio: 16 to 1	200600 to 1	4001200 to 1	10003000 to 1		
Cat. no. 2570-8	Ratio: 16 to 1	4001200 to 1	10003000 to 1	20006000 to 1		
Cat. no. 2570-99		CUSTOMS RATIOS				

OTHER PRODUCTS

- Manual & Automatic Transformer Ratio Meters.
- Digital Micro Ohm Meters with built in 100Amp source.
- Manual & Automatic Transformer Winding Resistance & On Load Tap Changer Test sets.
- Automatic CT/VT Test Sets & Systems.
- Automatic 12 kV & 5 kV Capacitance & Tan Delta Test Sets.
- Relaying Current Transformer Analyser.



Ettel Industries, established in 1983, is a market leader in the development and manufacturing of test instruments for electrical power industries and utilities. We are pleased to announce the NABL-accreditation of the Ettel Industries Calibration Laboratory (including on-site calibrations) in electro-technical discipline in accordance to ISO/ IEC:17025/2005.