Eine + - Z / 1- phase Digital measuring instrument

The digital meter programmable Eine + - Z 1- phase have been designed for industrial application ,which frequently require precise and on-site adjustment of the display range. It can be used in industrial automation and for laboratory uses.

True RMS Measurement
The instrument measures distorted waveform upto 15th harmonic.

Display parameters
Voltage VLN or Current.

Ultra bright LED Display
Voltage has 3 digit 1 line seven segment LED display. Ammeter/Current has 4 digit 1 line seven segment LED display

Front panel keys
Two keys are useful for easy setup navigation and changing setup parameters.

On site programmable PT parameters:(For volt)
Potential Transformer (PT) primary and secondary is programmable on site through front panel keys.
PT Primary value ranging from 57.5 VLN to 900 kVLN.
PT Secondary value ranging from 57.5 VLN to 480 VLN.

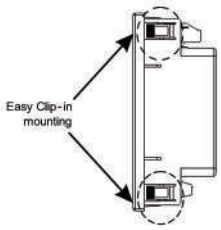
On site programmable CT parameters:(For Ammeter)
Current Transformer (CT) primary and secondary is programmable on site through front panel keys.
CT Primary value ranging from 1A to 9999A.
CT Secondary value ranging from 1A/5A.

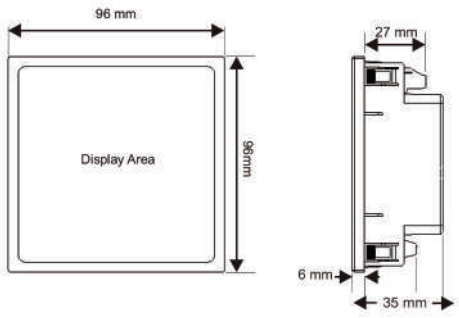
Auxiliary supply
Higher Auxiliary power supply with voltage range 60V-300V AC/DC.

Enclosure Protection for dust and water
Conforms to IP 50 (for front face) and IP 20 (for back) and as per IEC60529.

EMC Compatibilty
Compliance to IEC61326

Installation and dimensions:





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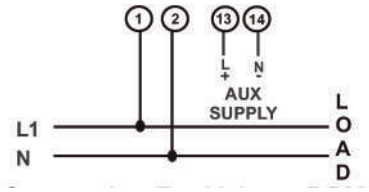
Technical Specifications

Operating measuring ranges	Voltage Range Current Range Frequency	10V ..... 519V For 1A(15mA -1.2A) and For 5A(55mA- 6A) 45...65 Hz.
Input voltage (for Volt)	Full Scale Input voltage (AC RMS) Max continuous input voltage Input voltage burden	(FS) 480 VLN. 519 VLN. (OL >1.083 X PT Primary). <0.3 VA approx at 230V.
Input current (for Ammeter)	Input current. Max continuous input current Input current burden	1A or 5A. 120% of CT Primary.(OL >1.21 X CT Primary). <0.3 VA approx.
Auxiliary supply	Higher AC-DC External Aux. Frequency range VA burden	60-300V AC/DC. 45 to 65 Hz. 5 VA Approx.
Overload withstand	Voltage Current	600VLN for 1 second, repeated 10 times at 10 second intervals. 2 x 5A for 1 second, repeated 5 times at 5 second intervals.
Reference conditions of accuracy	Reference temperature Input waveform Input frequency Auxiliary supply voltage Auxiliary supply frequency	23°C ±2°C. Sinusoidal (distortion factor 0.005). 50 or 60 Hz ±2%. Nominal Value ±1%. Nominal Value ±1%.
Display update rate:	Response time to step input	Less than 1 second.
Acurracy	Voltage Current	± 1.0 % of FS (optional ± 0.5 %) ± 1.0 % of 5A (optional ± 0.5 %)
Influence of variations	Temperature coefficient (for range of use (0°C to 55°C)	0.03 % /°C for Voltage. 0.05 % /°C for Current.
Applicable standards	EMC Safety IP for water and dust	IEC 61326-1 (Table-2). IEC 61010-1-2018,Permanently connected use. IEC 60529.
Environmental	Operating temperature Storage temperature Relative humidity Warm up time Shock Vibration	0°C to +55°C. -25°C to +70°C. 0... 90% non condensing. Minimum 3 minute. Half sine wave, Peak acceleration 30gn (300 m/s^2), 10... 55 Hz, 0.15mm amplitude.
Enclosure	Front Back	IP 50 IP 20
Dimensions	Housing dimensions Panel cut-out	96 x 96 x 40 mm. 92.8 x 92.8 mm.
Safety	Pollution degree Installation High Voltage Test	2 category III 2 kV AC, 50Hz for 1 minute between

Electrical connection:

a) For voltage



b) For current

Order example:

- Eine + -Z, 1 phase, Voltage 57.5-480V L-N, 30-60V AC/DC, Class 0.5