

# Ziegler

Redefine Innovative Metering

# Technical Datasheet

## ZIM PROE N

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AC Voltmeter/Ammeter

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## AC Voltmeter/Ammeter

The Digital meter PROGRAMMABLE ZIM PROE N 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.

### Applications

The application include Motor protection, Mining equipment, Industrial premises, Substation premises.

### Salient Features:

- True RMS measurement.
- Attractive look with two touch keys.
- 3 digit or 4 digit ultra bright 7 Segment LED display.
- Fast & Easy Installation on panel with click fit arrangement

### Product Features

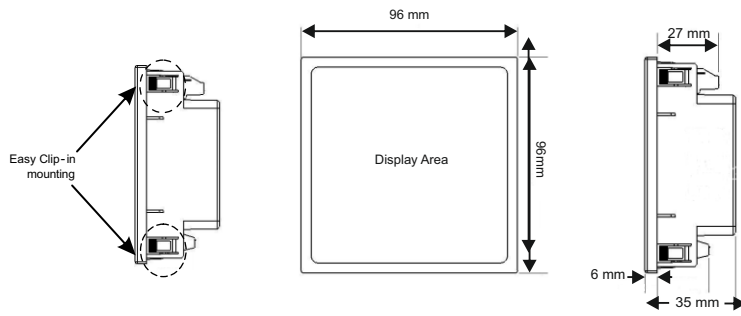
- **Display parameters** : Voltage VLN or Current.
- **True RMS Measurement** : The instrument measures distorted waveform upto 15th harmonic.
- **Ultra bright LED Display** : Voltage DPM has 3 digit 1 line seven segment LED display. Ammeter/Current DPM has 4 digit 1 line seven segment LED display.
- **Front panel keys** : Two keys are useful for easy setup navigation and changing setup parameters.
- **On site programmable PT parameters** : (For volt DPM) 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) & IP 20 (for back) & as per IEC60529.
- **EMC Compatibilty** : Compliance to IEC61326.



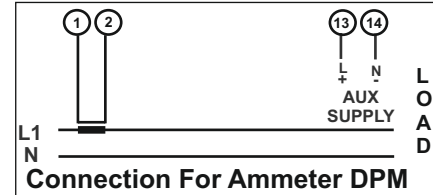
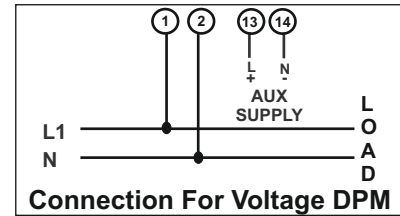
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## AC Voltmeter/Ammeter

### Installation :



### Electrical Connection:



## Technical Specifications:

### Operating Measuring Ranges

Voltage Range	10V ..... 519V
Current Range	For 1A (15mA -1.2A) & For 5A (55mA- 6A)
Frequency	45...65 Hz.

### Input Voltage: (for Voltmeter)

Full Scale Input voltage (AC RMS)(FS)	Input voltage burden
Max continuous input voltage	519 VLN. (OL >1.083 X PT Primary).
Input voltage burden	<0.3 VA approx at 230V.

### Input Current: (for Ammeter)

Input current.	1A or 5A.
Max continuous input current	120% of CT Primary.(OL >1.21 X CT Primary).
Input current burden	<0.3 VA approx.

### Auxiliary Supply

Higher AC-DC External Aux.	60-300V AC/DC.
Frequency range	45 to 65 Hz.
VA burden	5 VA Approx.

### Overload Withstand

Voltage	600VLN for 1 second, repeated 10 times at 10 second intervals.
Current	2 x 5A for 1 second, repeated 5 times at 5 second intervals.

### Reference conditions for Accuracy

Reference temperature	23°C ± 2°C.
Input waveform	Sinusoidal (distortion factor 0.005).
Input frequency	50 or 60 Hz ±2%.
Auxiliary supply voltage	Nominal Value ±1%.
Auxiliary supply frequency	Nominal Value ±1%.

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<b>Display update rate</b>	
Response time to step input	Less than 1 second.
<b>Accuracy</b>	
Voltage	± 0.5 % of FS.
Current	± 0.5 % of 5A .
<b>Influence of Variations</b>	
Temperature coefficient	0.03 % /°C for Voltage.
(for range of use (0°C to 55°C))	0.05 % /°C for Current.
<b>Applicable Standards</b>	
EMC	IEC 61326-1 (Table-2).
Safety	IEC 61010-1-2018, Permanently connected use.
IP for water & dust	IEC 60529.
<b>Environmental:</b>	
Operating temperature	0°C to +55°C.
Storage temperature	-25°C to +70°C.
Relative humidity	0... 90% non condensing.
Warm up time	Minimum 3 minute.
Shock	Half sine wave, Peak acceleration 30gn (300 m/s <sup>2</sup> ),
Vibration	10... 55 Hz, 0.15mm amplitude.
<b>Enclosure</b>	
Front	IP 50
Back	IP 20
<b>Dimensions</b>	
Housing dimensions	96 x 96 x 40 mm.
Panel cut-out	92.8 x 92.8 mm.
<b>Safety</b>	
Pollution degree	2
Installation category	III
High Voltage Test	2 kV AC, 50Hz for 1 minute between aux. and measuring input.
Weight	200gm Approx

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