



Read And Understand This Manual Before Using The Instruments

INSTALLATION INSTRUCTIONS **Analogue Instruments** **Panel Indicators Vista Series**

Installation:

The product should be panel mounted using the mounting kit provided. Consideration should be given to the space required behind the unit to allow for bends in the connecting cables. Additional protection to the panel may be obtained by the use of an optional panel gasket. The terminals at the rear of the case should be protected from liquids. Units should be mounted in a reasonably stable ambient temperature.

The unit should not be mounted where it can be subjected to excessive direct sunlight and vibration should be kept to a minimum. Connection wires should be sized to comply with local regulations and should be terminated on to tags suitable for screw connection. The products do not have internal fuses therefore; external fuses must be used for safety protection under fault conditions.

Electromagnetic Compatibility (EMC) Installation Requirements

This product range has been designed to meet the certification requirements of the EU Directives when installed to a good code of practice for EMC in industrial environments e.g.

1. Screen all leads. In the event of PF fields causing problems where screened leads can not be used, provision for fitting RF suppression components, such as ferrite absorbers, line filters etc., must be made N.B. it is good practice to install sensitive electronic instruments that are performing critical functions, in EMC enclosures that protect against electrical interference causing a disturbance in function.
2. Avoid routing leads alongside cables and products that are, or could be, a source of interference.
3. To protect the product against permanent damage, surge transients must be limited to 2kV pk
4. Electro Static Discharge (ESD) precautions must be taken at all times when handling this product.

For assistance on protection requirements please contact your local sales office.

Low Voltage Directive: This product complies with BSEN61010-1.

RISH Vista series

Where models have different terminal markings all options are illustrated. Voltage circuits should be fused. When practical, instrument circuits should be earthed at one point. C.Ts must not be open circuited on load.

Indoor Use

Altitude up to 2000m or above 2000m if specified by the manufacturer.

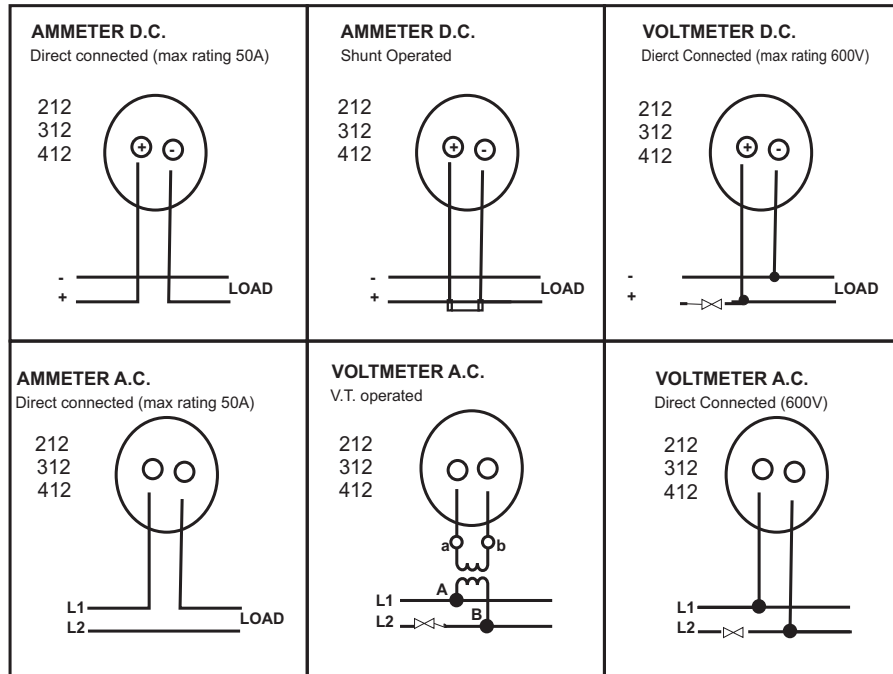
Temperature 0 to 40°C;

Maximum relative humidity 80% for temperatures up to 31 °C decreasing linearly to 50% relative humidity at 40°C;

Transient voltage according to INSTALLATION CATEGORIES (OVER VOLTAGE CATEGORIES) I, II, and III,. For mains supply the minimum and normal category is II; POLLUTION DEGREE is 1 or 2 in accordance with IEC 664.



Risk! Electric Shock



This product do not have internal fuses, so external fuses must be use for safety protection under fault condition. Voltage input line were required must be fused with a quick blow fuse 1 Amp (UL marked) maximum. current metering circuits directly connected in line with load must be fuse and rated current for the meter unless the circuit into which they are connected is limited so that at can't deliver excessive current. Do not fuse ct circuit.

Specification of Disconnecting Device:

Disconnecting device used must meet the relevant requirement of IEC 60947-1 & IEC 60947-3. Electrical Rating should be 1.5times of the measuring I/P, switching time of the device should be < 0.1sec.

The information contained in these instructions in for use only by installers trained to make electrical power installations and is intended to describe the correct method of installation for this product. However Manufacturer has no control over the field conditions, which influence product installation. It is the responsibility to determine the suitability of installation method in the user's field condition. Manufacturer only obligations are those in Manufacturer standard conditions of safe for this product & in no case will Manufacturer be liable for any other incidental, indirect or consequential damages arising from the use or misuse of the products.

NOTE: The meters to be used in panel or setup which is grounded.

LIMITED ONE-YEAR WARRANTY

If this product fails to perform satisfactorily due to a defect or poor workmanship within **ONE YEAR** from the date of purchase, return it to the place of purchase and it will be replaced free of charge. Incidental or consequential damages are excluded from this warranty.

Manufacturing Location :

F-31, MIDC, Satpur, Nashik-422 007,India.

Item code : 15001021



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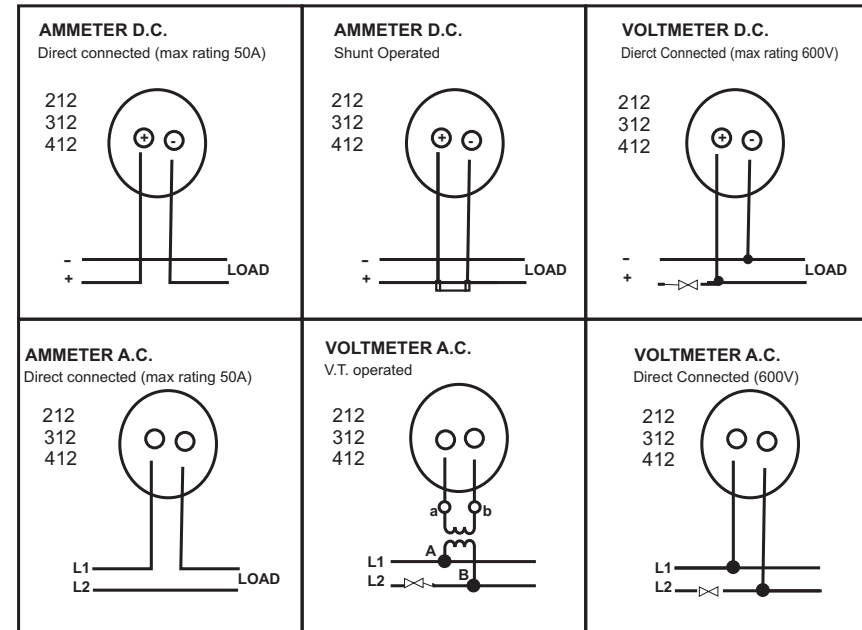
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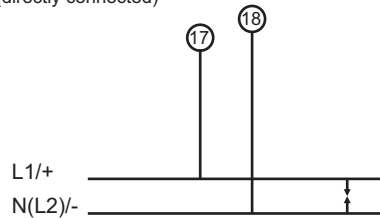
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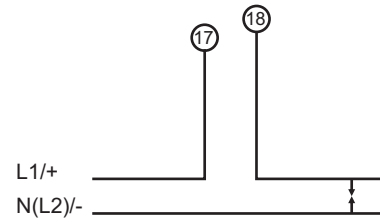
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Connections

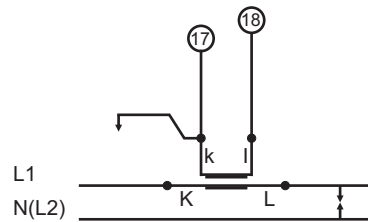
AC/DC Voltage & ZQ (Frequency meter)
(directly connected)



AC/DC Current (directly connected)

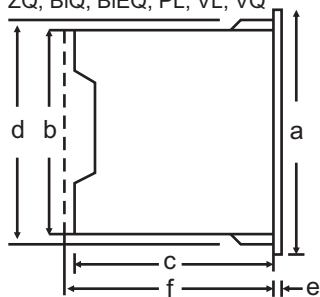


AC current (for use on current transformer)

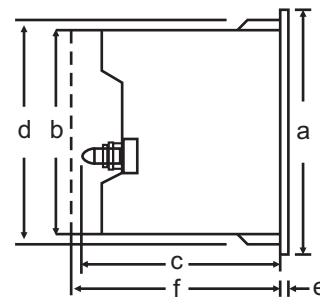


Dimensions

For EQ Voltmeters & Ammeters upto 30A/For PQ Voltmeter & Ammeters <6A ZQ, BiQ, BiEQ, PL, VL, VQ



For EQ Ammeters >30A/For PQ Ammeters 6- 100 A



Type	48X48*	72X72	96X96	144X144	
Dimensions (in mm)					
Bezel	a	48	72	96	144
Case	b	43.5	66	90	136
Depth	c*	53	53	53	53
	d	44.5	67.5	91.5	137.5
	e	5.5	5.5	5.5	5.5
		45 ^{+0.6}	68 ^{+0.7}	92 ^{+0.8}	138 ⁺¹
Cutout size	f**	64	64	64	64
Depth with back cover	*	C = 62mm, for I >30A & up to 60A / *C = 68mm, for I = 6 to 60 A			
	*	C = 67mm, for I >60A / *C = 78mm, for I >60 A			
	**	f = 69.5mm, for I >60A			
	**	f = 75 mm, for EQ 48, I > 30 A / 75 mm / ** f = 75mm, for PQ 48, I > A.			
Weight approx		0.1 kg.	0.16kg	0.2kg.	0.4kg.

Instruction Sheet

IC : 30338

For Analogue Panel Meters type EQ, PQ, BIQ, & BIEQ, PL, VL, VQ, ZQ

1.0 General:

This meter complies with International standard IEC 1010-1 Amendment 2 for safety and is conforming to routine tests as per IEC 51. The test equipment used is traceable to National/ International standards.

This product must be used after mounting in panel with hardware supplied, with wires permanently connected to terminals as specified.

2.0 Meaning of Symbols :



Caution hot surface

EU conformity mark

3.0 Safety specifications (IEC1010-1 A2)

- * Indoor use
- * Altitude up to 2000 m
- * Temp. -10 to +55° C
- * Maximum relative humidity 80% for temperature up to 31°C decreasing linearly to 50% relative humidity at 40°C & further linear decrease to 25% relative humidity at 55°C
- * Basic Insulation
- * Pollution degree 2
- * Installation Categories (over voltage category): For EQ, PQ, Size 72, 96 & 144 - 600V CAT III
Size 48 - 300V CAT III
For BIQ, BIEQ, VL, VQ, ZQ PL, - 300V CAT III

4.0 Equipment Installation:

- * Due consideration should be given to space behind the meter to allow for bends in connecting cables.
- * Ensure that wires do not remain under tension.
- * The products do not have internal protection against overload & short circuit. Hence external safety protection should be provided. It is recommended to install protective device near equipment.
- * PQ meter millivolt ranges :- Please use lead wires having total resistance of 35 milliohms.

5.0 Operation & Maintenance :

- * Equipment must be installed & maintained by suitably qualified person.
- * If equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- * CTs must not be opened when on load.
- * Instruments with damaged bezels or window glasses must be disconnected from mains.
- * Back cover must be snapped into place for protection against accidental contact.
- * Disconnect supply before replacing scales, bezels or window glasses.
- * There are no user serviceable parts in this product. Please contact at the address given, for clarifications if any.

6.0 Equipment Rating :

As per information on Sticker & Dial of the instrument.