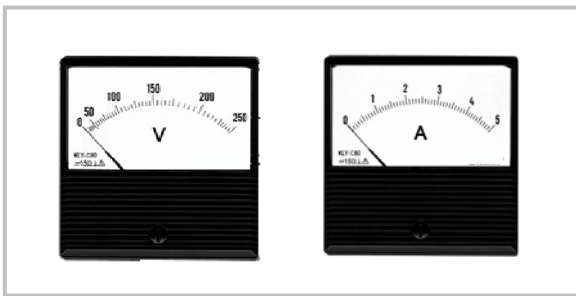


Pointer type Meter ANSI Panel, Analog meter



Application

Square and Rectangular panel meters are direct indication of measuring input. Suitable to use on the distribution panel, control panel, switchboard panel, power plant, mimic board, machines and others. Designed for industrial applications which required precise, reliable and robust instruments for the display range and indicating. Each measuring instrument is suited for one of the following measuring tasks:

- DC voltage meter
 - Direct connection 0-150V, 0-300V or request.
- DC current meter
 - Direct connection 1, 3, 5, 10, 20, 30A.
 - Direct connection 1mA, 5mA, 10mA, 20mA, 30mA, 40mA, 50mA, 75mA, 100mA, 150mA, 4...20mA.
 - Shunt resistor 60mV, 75mV, 150mV, 300mV.
- AC voltage meter
 - Direct connection 0-150V, 0-300V, 0-500V, 0-600V.
 - PT connection 100, 110, 115, 120 V.
- AC current meter
 - Direct connection 1, 3, 5, 10, 20, 30, 40, 50, 60A.
 - Direct connection 100mA, 150mA, 500mA.
 - Current Transformers connection CT/ 1 A or CT/ 5 A
- Frequency meter
 - Input voltage 50V, 100V, 220V, 380V, 440V or request.
 - Frequency range 45-55Hz., 45-65Hz., 55-65Hz., 44-56Hz., 54-66Hz., 450-550Hz., 450-650Hz., 550-650Hz.
- Power Factor meter 1Ph2W, 3Ph3W
 - Input voltage 50V, 100V, 220V, 380V, 440V or request.
 - Input current CT / 1A or CT / 5A .
- Watt or Var meter 1Ph2W, 3Ph3W, 3Ph4W
 - Input voltage 50V, 100V, 220V, 380V, 440V or request.
 - Input voltage PT connection 100, 110, 115, 120V ac.
 - Input current CT / 1A or CT / 5A .
- Others by request or more detail see ordering information.

- Front Dimension 80x80mm., 60x60mm., 50x50mm.
58x47.5mm., 70x60mm., 80x68mm.
- ANSI C39.1, JIS C1102, JIS C1103
- Polycarbonate, self extinguishing and drip-proof per UL94V-0
- Rugged housing-non combustible, plastic-heat resistance.
- Accuracy $\pm 1.5\%$ Or class1.0 Or customize.
- Excellent readability with higher reliability
- Vertical scale to embossed reading area eliminate reading error

Characteristic

Display

Scale Graduation
Pointer

Coarse-fine
Beam pointer with slim knife.

Mechanical Design

Housing Material

Polycarbonate, self-extinguishing and drip-proof per UL94V-0

Mounting Fasteners

Standard type screw clamp

Scale

Interchangeable scales
Scales may only be replaced under voltage-free conditions !

Replaceable

Bezels and glass face plates, May only be replaced under voltage-free conditions!

Terminals

M4 screw terminals with self-lifting terminal clips.
Screws can be turned with standard screw drivers tool.

Contact Protection

Finger-safe full cover included

Accuracy

1.5, 1.0 or request.

Consumption

Ammeter

0.7 Ω for 4...20 mA.

Ammeter

8 mA for shunt operated.

Ammeter

60mV for direct connection.

Volt meter

1000 Ω / V.

Ambient Conditions

Operating Temperature

- 20 ... + 55 °C

Storage Temperature

- 40 ... + 70 °C

Relative Humidity

max. 95%

Compliance with Regulations

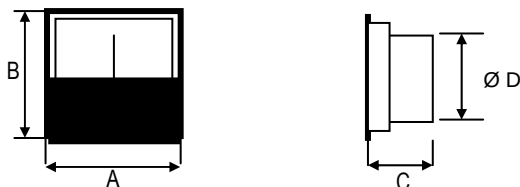
Protection

IP 52, front panel, Terminal IP20

Protection

Class 1

Dimension

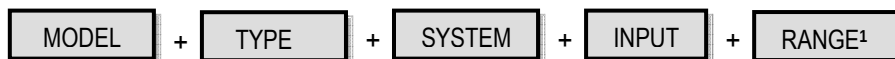


Size	A	B	C	D
RC50	50	50	61	43
RC60	60	60	61	46.5
RC80	80	80	61	46.5
Y560	58	47.5	61	43
Y670	70	60	61	46.5
Y780	80	68	61	46.5

Size (Square)	50x50	60x60	80x80
Model	RC50	RC60	RC80
Size(Rectangular)	58x47.5	70x60	80x68
Model	Y560	Y670	Y780
Scale Length	35mm.	42mm.	70mm.
	38mm.	45mm.	50mm.
Weight	0.35 Kg.	0.45 Kg.	0.65 Kg.
Panel Cutout	Ø43mm.	Ø46.5mm.	Ø46.5mm.
Max Voltage	300 V	300 V	600 V
Test Voltage	2.2 Kv	2.2 Kv	2.2 Kv

Pointer type Meter ANSI Panel, Analog meter

Ordering Information.



¹ please specify when ordering or factory standard or consult

MODEL

RC50	for 50x50 mm.
RC60	for 60x60 mm.
RC80	for 80x80 mm.
Y560	for 58x47.5 mm.
Y670	for 70x60 mm.
Y780	for 80x68 mm.

TYPE

DA	DC Ammeter
DV	DC Voltmeter
AA	AC Ammeter
AV	AC Voltmeter
F	Frequency meter
PF	Power Factor meter
W	Watt meter
Q	Var meter

SYSTEM

*E11...Single phase two wire
 *E31...Three phase three wire bal. load
 *E32...Three phase three wire unbal. load
 *E33...Three phase four wire unbal. load

* A, V, F do not need this info.
 * PF available with E11,E31 only.

INPUT

A ?/60mV, ?/1A, ?/5a or 100V, 110V, 115V, 120V, 220V, 230V, 380V, 400V or specify
 B ?/1A, ?/5a and 58/100V, 63.5/110V, 66.5/115V, 69.5/120V, 220/380V or specify
 C ?/1A, ?/5a and ?/ 100V, ?/110V, ?/115V, ?/120V or specify

A for A, V, F only
 B for W, Q, PF
 C for W, Q, PF CT, PT rated
 ? please specify when ordering

Example

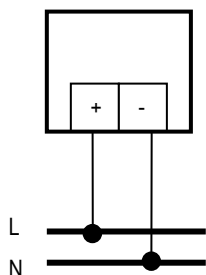
- 1) DC Amp Meter RC50-DA Input 100A/60mV, Range 0-100A^E
- 2) DC Volt Meter RC 60-DV Input 150V, Range 0-150V^E
- 3) AC Amp Meter RC 80-AA Input CT100/5A, Range 0-100A^E
- 4) AC Volt Meter Y560-AV Input PT115kV/115V, Range 0-130Kv^E
- 5) F110 Frequency Y670-F Input 220V, Range 45-55Hz.^E
- 6) AC PF Meter Y780-PF-E31 Input 115V, CT 5A, Range 0.5-1-0.5^E
- 7) AC Watt Meter RC80-W-E33 Input PT115kV/115V, CT 200/5A, Range 0-40MW^E
- 8) AC Var Meter RC60-Q-E32 Input PT115kV/115V, CT 200/5A, Range 0-40MVar^E

^E factory standard range or specify when ordering or consult.

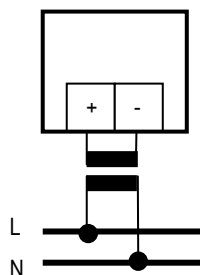
Wiring Diagram.

AC, DC Volt Meter.

Direct Connection

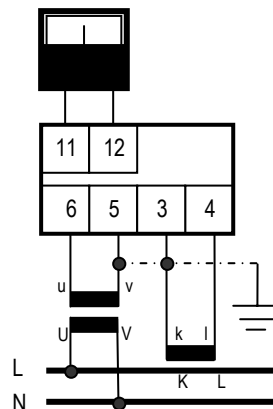


PT Connection



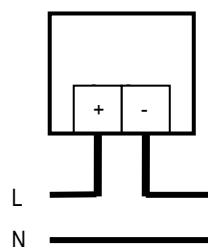
W, Q Watt – Var Meter.

1Ph 2W

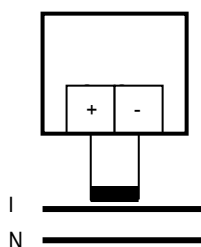


AC, DC Current Meter.

Direct Connection

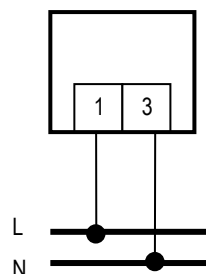


CT Connection

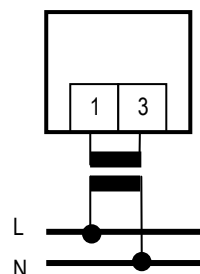


Frequency Meter.

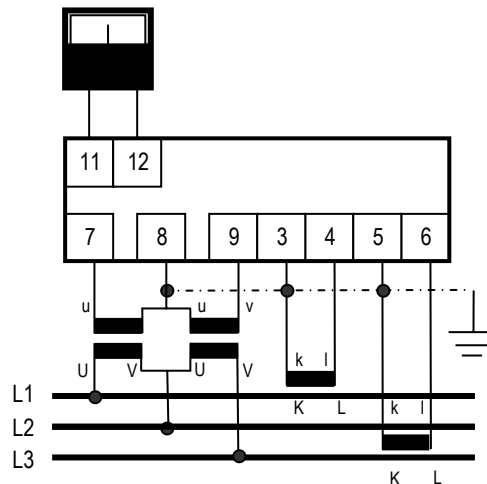
Direct Connection



PT Connection

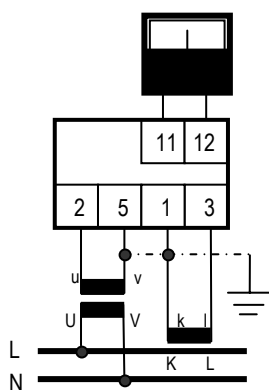


3Ph 3W

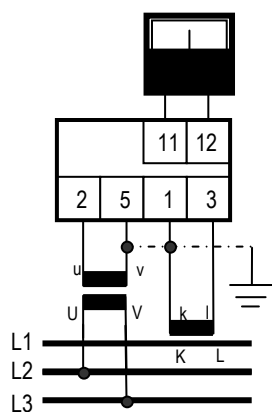


PF Power Factor Meter.

Direct Connection



PT Connection



3Ph 4W

