



Accuracy: class 3.0

Voltage: 110V, 220V, 380V, 415V, 440V

Frequency: 45-55Hz, 45-65Hz, 55-65Hz, 47-53Hz, 57-63Hz, 450-550Hz, 450-650Hz, 550-650Hz,

Name	48 Frequency Meter
Model	> Analog meter > 96、72、48 Series
Type	SD-48 Hz

Display: 99999.99

Voltage: DC 12V, 24V; AC 110V, 220V, 380V

Frequency: 50Hz or 60Hz

Name	48 Hours Run Meter
Model	> Analog meter > 96、72、48 Series
Type	SD-48 H



Accuracy: class 2.5

Specification: 100uA 150uA 500uA 1mA 2mA 5mA 10mA 20mA 30mA 50mA 75mA 100mA 150mA 200mA 250mA 300mA 500mA 1A 2A 3A 7.5A 10A 20A 30A 50A, if measuring ranges over 50A, meters can be connected external shunt with 50mV, 60mV or 75mV

Name	48 Moving Coil instrument DC Ammeter
Model	> Analog meter > 96、72、48 Series
Type	SD-48 DC A



Accuracy: class 2.5

Specification: 50mV 60mV 75mV 100mV 3V 5V 7.5V 10V 15V 20V 30V 50V 75V 100V 120V 150V 200V 250V 300V 400V 450V 500V 600V, measuring ranges over 600V with external resistor (rated current 5mA)

Name	48 Moving Coil instrument DC Voltmeter
Model	> Analog meter > 96、72、48 Series
Type	SD-48 DC V



Accuracy: class 2.5

Specification: 0.5A 1A 1.5A 3A 5A 7.5A 10A 15A 20A 25A 30A 40A 50A 60A, if over 60A, meters can be contacted current transformer with secondary current 5A or 1A

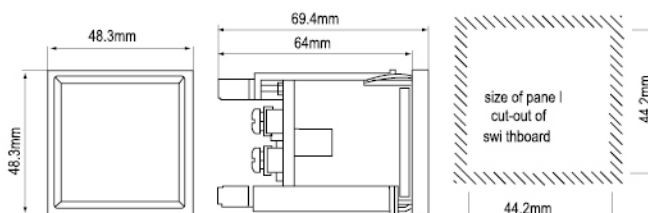
Name	48 Moving Iron instruments AC Ammeter
Model	> Analog meter > 96、72、48 Series
Type	SD-48 AC A



Accuracy: class 2.5

Specification: 30V 50V 75V 100V 120V 150V 200V 250V 450V 500V 600V, if over 600V, meters can be connected potential transformer with secondary voltage 100V

Name	48 Moving Iron instruments AC Voltmeter
Model	> Analog meter > 96、72、48 Series
Type	SD-48 AC V





Accuracy: class 1.0

Voltage: 110V, 220V, 380V, 415V, 440V

Frequency: 45-55Hz, 45-65Hz, 55-65Hz, 47-53Hz, 57-63Hz, 450-550Hz, 450-650Hz, 550-650Hz

Name	72 240° Frequency Meter
Model	> Analog meter > 96、72、48 Series
Type	PM-72 L Hz

Accuracy: class 1.5

Specification: 100uA 150uA 500uA 1mA 2mA 5mA 10mA 20mA 30mA 50mA 75mA 100mA 150mA 200mA 250mA 300mA 500mA 1A 2A 3A 7.5A 10A 15A, over 15A, over 15A with external 50mV, 60mV or 75mV shut.

Name	72 240° Moving Coil instrument DC Ammeter
Model	> Analog meter > 96、72、48 Series
Type	PM-72 L DC A

Accuracy: class 1.5

Specification: 50mV 60mV 75mV 100mV 3V 5V 7.5V 10V 15V 20V 30V 50V 75V 100V 120V 150V 200V 300V 400V 450V 500V 600V, over 600V with external resistor (rated current 5mA)

Name	72 240° Moving Coil instrument DC Voltmeter
Model	> Analog meter > 96、72、48 Series
Type	PM-72 L DC V

Accuracy: class 2.5

Voltage(three phase): 110V, 220V, 380V, 415V, 440V/5A or 1A

Voltage(single phase): 110V, 220V/5A or 1A

Frequency: 50Hz or 60Hz

Specification: 0.5cap-1-0.5ind, 0.4cap-1-0.4ind

Name	72 240° Power Factor Meter
Model	> Analog meter > 96、72、48 Series
Type	PM-72 L COS

Accuracy: class 1.5

Voltage(three phase three wire): 100V, 110V, 220V(balance or unbalance)

Voltage(three phase three wire): 110V, 110V, 220V, 380V, 415V(balance or unbalance)

Current if the current is over 10A, the current circuits have to be connected current transformer, which secondary current is 5A or 1A. if the current is not over 10A, it can be connected directly according to actual current.

Frequency: 50Hz or 60Hz

Specification: 100W, 200W...1KW, 2KW...1MW, 2MW...6MW

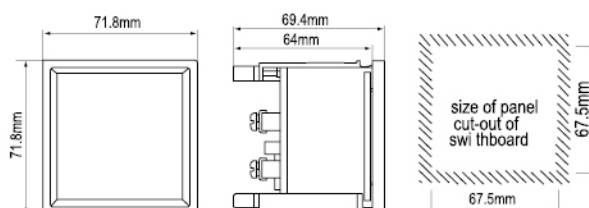
Name	72 240° Wattmeter
Model	> Analog meter > 96、72、48 Series
Type	PM-72 L KW

Accuracy: class 1.0

Voltage: 110V, 220V, 380V, 415V, 440V

Frequency: 45-55Hz, 45-65Hz, 55-65Hz, 47-53Hz, 57-63Hz

Name	72 Frequency Meter (Reeds Types)
Model	> Analog meter > 96、72、48 Series
Type	PM-72 Hz





Accuracy: class 0.5 or class 1.0

Voltage: 110V, 220V, 380V, 415V, 440V

Frequency: 45-55Hz, 45-65Hz, 55-65Hz, 47-53Hz, 57-63Hz, 450-550Hz, 450-650Hz, 550-650Hz

Name	72 Frequency Meter
Model	> Analog meter > 96、72、48 Series
Type	SD-72 Hz

Display: 99999.99

Voltage: DC 12V, 24V; AC 110V, 220V, 380V

Frequency: 50Hz or 60Hz

Name	72 Hours Run Meter
Model	> Analog meter > 96、72、48 Series
Type	SD-72 H

Accuracy: class 3.0

Specification: 8min 5A, 15min 5A, 30min 5A, 8min 1A, 15min 1A and 30min 1A (If internal value is same, the dial plate can be changeable according to current transformer and the accuracy is same.)

Name	72 Maximum Demand Ammeter
Model	> Analog meter > 96、72、48 Series
Type	SD-72 MD

Accuracy: class 1.5

Specification: 50uA 100uA 150uA 500uA 1mA 2mA 5mA 10mA 20mA 30mA 50mA 75mA 100mA 150mA 200mA 250mA 300mA 500mA 1A 2A 3A 7.5A 10A 20A 30A 50A 60A, if measuring ranges over 60A, meters can be connected external shunt with 50mV, 60mV or 75mV

Name	72 Moving Coil instrument DC Ammeter
Model	> Analog meter > 96、72、48 Series
Type	SD-72 DC A

Accuracy: class 1.5

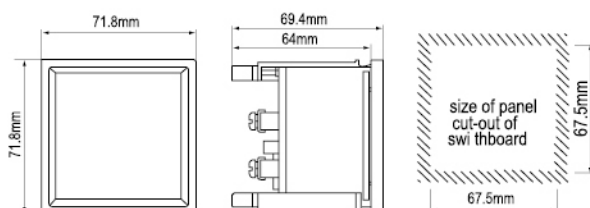
Specification: 50mV 60mV 75mV 100mV 3V 5V 7.5V 10V 15V 20V 30V 50V 75V 100V 120V 150V 200V 250V 300V 400V 450V 500V 600V, measuring ranges over 600V with external resistor (rated current 5mA)

Name	72 Moving Coil instrument DC Voltmeter
Model	> Analog meter > 96、72、48 Series
Type	SD-72 DC V

Accuracy: class 1.5

Voltage: 0.1A 0.5A 1A 1.5A 3A 5A 7.5A 10A 15A, over 15A, meters can be contacted external current transformer, which secondary current is 5A or 1A

Name	72 Moving Coil instrument With Rectifier AC Ammeter
Model	> Analog meter > 96、72、48 Series
Type	SD-72 AC A





Accuracy: class 1.5

Specification: 10V 20V 30V 50V 75V 100V 120V 250V 300V 400V 450V 500V 600V, if over 600V, meters can be connected potential transformer with secondary voltage 100V

Name	72 Moving Coil instrument With Rectifier AC Voltmeter
Model	> Analog meter > 96、72、48 Series
Type	SD-72 AC V

Accuracy: class 1.5 (over 60A class 2.5)

Specification: 0.5A 1A 1.5A 3A 5A 7.5A 10A 15A 20A 25A 30A 40A 50A 60A 80 100A, if over 100A, meters can be contacted current transformer with secondary current 5A or 1A

Name	72 Moving Iron Instruments AC Ammeter
Model	> Analog meter > 96、72、48 Series
Type	MSD-72 AC A

Accuracy: class 1.5

Specification: 30V 50V 75V 100V 120V 150V 200V 250V 450V 500V 600V, if over 600V, meters can be connected potential transformer with secondary voltage 100V

Name	72 Moving Iron Instruments AC Voltmeter
Model	> Analog meter > 96、72、48 Series
Type	MSD-72 AC V

Accuracy: class 2.5

Voltage (three phase): 100V, 110V, 220V, 380V, 415V, 440V/5A or 1A

Voltage (single phase): 110V, 220V/5A or 1A

Frequency: 50Hz or 60Hz

Specification: 0.5cap-1-0.5ind, 0.4cap-1-0.4ind

Name	72 Power Fact Meter
Model	> Analog meter > 96、72、48 Series
Type	SD-72 COS

Accuracy: class 1.5

Voltage (three phase three wire): 100V, 110V, 220V (balance or unbalance)

Voltage (three phase four wire): 100V, 110V, 220V, 380V, 415V (balance or unbalance)

Current: if the current is over 10A, the current circuits have to be connected current transformer, which secondary current is 5A or 1A. if the current is not over 10A, it can be connected directly according to actual current.

Frequency: 50Hz or 60Hz

Specification: 100W, 200W...1KW, 2KW...1MW, 2MW...6MW

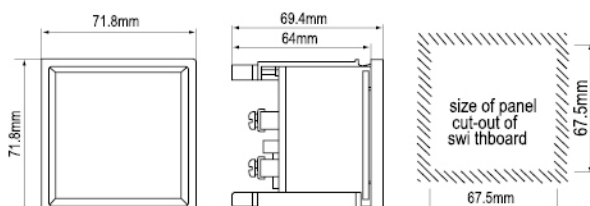
Name	72 Wattmeter
Model	> Analog meter > 96、72、48 Series
Type	SD-72 KW

Accuracy: class 1.0

Voltage: 110V, 220V, 380V, 415V, 440V

Frequency: 45-55Hz, 45-65Hz, 55-65Hz, 47-53Hz, 57-63Hz, 450-550Hz, 450-650Hz, 550-650Hz

Name	96 240° Frequency Meter
Model	> Analog meter > 96、72、48 Series
Type	PM-96 L Hz





Accuracy:class 1.5

Specification:100uA 15uA 500uA 1mA 2mA 5mA 10mA 20mA 30mA 50mA 75mA 100mA 150mA 200mA 250mA 300mA 500mA 1A 2A 3A 7.5A 10A 15A, over 15A with external 50mV, 60mV or 75mV shut

Name	96 240° Moving Instrument DC Ammeter
Model	> Analog meter > 96、72、48 Series
Type	PM-96 L DC A

Accuracy:class 1.5

Specification:50mA 60mA 75mA 100mA 3V 5V 7.5V 10V 15V 20V 30V 50V 75V 100V 120V 150V 200V 300V 400V 450V 500V 600V, over 600V with external resistor (rated current 5mA)

Name	96 240° Moving Instrument DC Voltmeter
Model	> Analog meter > 96、72、48 Series
Type	PM-96 L DC V

Accuracy:class 2.5

Voltage(three phase):110V, 220V, 380V, 415V, 440V/5A or 1A

Voltage(single phase):110V, 220V/5A or 1A

Frequency:50Hz or 60Hz

Specification:0.5cap-1-0.5ind, 0.4cap-1-0.4ind

Name	96 240° Power Fact Meter
Model	> Analog meter > 96、72、48 Series
Type	PM-96 L COS

Accuracy:class 1.0

Voltage:110V, 220V, 380V, 415V, 440V

Frequency:45-55Hz, 45-65Hz, 55-65Hz, 47-53Hz, 57-63Hz

Name	96 Frequency Meter (Reeds Type)
Model	> Analog meter > 96、72、48 Series
Type	PM-96 Hz

Accuracy:class 1.5

Voltage(three phase three wire):100V, 110V, 220V(balance or unbalance)

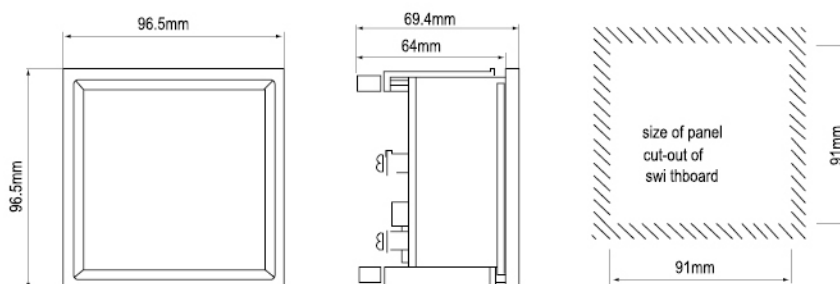
Voltage(three phase four wire):100V, 110V, 220V, 380V, 415V(balance or unbalance)

Current:if the current is over 10A, the current circuits have to be connected current transformer, which secondary current is 5A or 1A. if the current is not over 10A, it can be connected directly according to actual current.

Frequency:50Hz or 60Hz

Specification:100W, 200W...1KW, 2KW...1MW, 2MW...6MW

Name	96 240° Wattmeter
Model	> Analog meter > 96、72、48 Series
Type	PM-96 L KW





Accuracy: class 0.5 or class 1.0
Voltage: 110V, 220V, 380V, 415V, 440V
Frequency: 45-55Hz, 45-65Hz, 55-65Hz, 47-53Hz, 57-63Hz,
450-500Hz, 450-650Hz, 550-650Hz

Name	96 Frequency Meter
Model	> Analog meter > 96、72、48 Series
Type	SD-96 Hz

Display: 99999.99
Voltage: DC 12V, 24V; AC 110V, 220V, 380V
Frequency: 50Hz or 60Hz

Name	96 Hours Run Meter
Model	> Analog meter > 96、72、48 Series
Type	SD-96 H



Accuracy: class 3.0 (instantaneous values class 1.5)
Specification: 8min 5A, 15min 5A, 30min 5A, 8min 1A, 15min 1A and 30min 1A (If internal value is same, the dial plate can be changebel according to current transformer and the accuracy is same.)

Name	96 Maximum Demand Ammeter with Moving Iron ammeter
Model	> Analog meter > 96、72、48 Series
Type	SD-96 2MD



Accuracy: class 3.0
Specification: 8min 5A, 15min 5A, 30min 5A, 8min 1A, 15min 1A and 30min 1A (If internal value is same, the dial plate can be changebel according to current transformer and the accuracy is same.)

Name	96 Maximum Demand Ammeter
Model	> Analog meter > 96、72、48 Series
Type	SD-96 MD



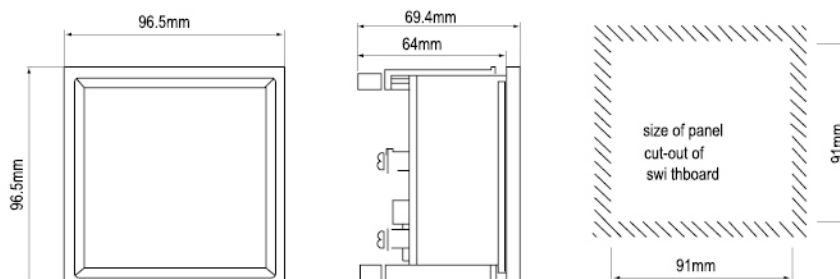
Accuracy: class 1.5
Specification: 50uA 100uA 150uA 500uA 1mA 2mA 5mA 10mA 20mA 30mA 50mA 75mA 100mA 150mA 200mA 250mA 300mA 500mA 1A 2A 3A 7.5A 10A 20A 30A 50A 60A, if measuring ranges over 60A, meters can be connected external shunt with 50mV, 60mA OR 75mA

Name	96 Moving Coil instrument DC Ammeter
Model	> Analog meter > 96、72、48 Series
Type	SD-96 DC A



Accuracy: class 1.5
Specification: 50mV 60mV 75mV 100mV 3V 5V 7.5V 10V 15V 20V 30V 50V 75V 100V 120V 150V 200V 250V 300V 400V 450V 500V 600V, measuring ranges over 600V with external resistor (rated current 5mA)

Name	96 Moving Coil instrument DC Voltmeter
Model	> Analog meter > 96、72、48 Series
Type	SD-96 DC V





Accuracy: class 1.5

Specification: 0.1A 0.5A 1A 1.5A 3A 5A 7.5A 10A 15A, over 15A, meters can be contacted external current transformer, which secondary current is 5A or 1A

Name	96 Moving Coil instrument with Rectifier AC Ammeter
Model	> Analog meter > 96、72、48 Series
Type	SD-96 AC A

Accuracy: class 1.5

Specification: 10V 20V 30V 50V 75V 100V 120V 250V 300V 400V 450V 500V 600V, if over 600V, meters can be connected potential transformer with secondary voltage 100V

Name	96 240° Moving Iron Coil Instruments With Rectifier AC Voltmeter
Model	> Analog meter > 96、72、48 Series
Type	MSD-96 AC V



Accuracy: class 1.5

Specification: 0.5A 1A 1.5A 3A 5A 7.5A 10A 15A 20A 25A 30A 40A 50A 60A 80A 100A, if over 100A, meters can be contacted current transformer with secondary current 5A or 1A

Name	96 240° Moving Instrument AC Ammeter
Model	> Analog meter > 96、72、48 Series
Type	MSD-96 AC A



Accuracy: class 1.5

Specification: 30V 50V 75V 100V 120V 150V 200V 250V 450V 500V 600V, if over 600V, meters can be connected potential transformer with secondary voltage 100V

Name	96 Moving Iron Instruments AC Voltmeter
Model	> Analog meter > 96、72、48 Series
Type	MSD-96 AC V

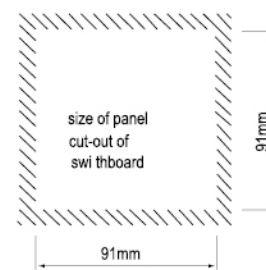
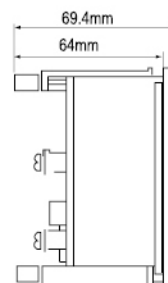
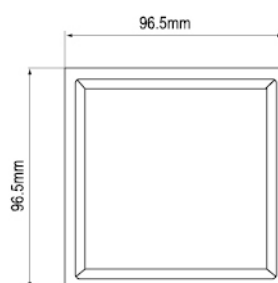


Accuracy: class 1.5

Specification: 100V, 150V, 200V, 250V, 300V, 500V and 600V, if over 600V, meters can be connected potential transformer with secondary voltage 100V

Three phase four wire position: L3-N, L2-N, L1-N, L1-L2, L2-L3, L3-L1

Name	96 Moving Iron Voltmeter with Change Over Switch For AC Voltmeter
Model	> Analog meter > 96、72、48 Series
Type	SD-96 S AC V





Accuracy: class 2.5
Voltage(three phase):110V, 110V, 220V, 380V, 415V, 440V/5A or 1A
Voltage(single phase):110V, 220V/5A or 1A
Frequency:50Hz or 60Hz
Specification:0.5cap-1-0.5ind, 0.4cap-1-0.4ind

Name	96 Power Fact Meter
Model	> Analog meter > 96、72、48 Series
Type	SD-96 COS



Accuracy: class 1.5
Voltage(three phase three wire):100V, 110V, 220V(balance or unbalance)
Voltage(three phase four wire):100V, 110V, 220V, 380V, 415V(balance or unbalance)
Current:if the current is over 10A, the current circuits have to be connected current transformer, which secondary current is 5A or 1A. If the current is not over 10A, it can be connected directly according to actual current.
Frequency:50Hz or 60Hz
Specification:100W, 200W...1KW, 2KW...1MW, 2MW...6MW

Name	96 Wattmeter
Model	> Analog meter > 96、72、48 Series
Type	SD-96 KW



Accuracy: class 1.5
Specification:100uA 15uA 500uA 1mA 2mA 5mA 10mA 20mA 30mA 50mA 75mA 100mA 150mA 200mA 250mA 300mA 500mA 1A 2A 3A 7.5A 10A 15A, over 15A with external 50mV, 60mV or 75mV shut

Name	Synchroscope Meter
Model	> Analog meter > 96、72、48 Series
Type	SD-96

