

X、K

single-phase intelligent digital meter



1.Application

single-phase digital meter is applied to power grid and automation control system, mainly measure each electrical parameter of grid, like current, voltage, power, factor, active and reactive power. This product has X, K, S three series.

X series intelligent digital meter, mainly measure and display the current, voltage, power, frequency, factor in the grid. It has direct display, high accuracy, high stability, anti-vibration, AC effective measure. It can be used at place which has abnormal waveform. K series meter is basic on the X series to equip the analog quantity transmitting output (4-20mA etc), one way RS485 communicate port (adopts the Modbus-RTU protocol) and relay output function (realize "off-limit alarm or remote function"): In the RS485 digital port, it adopts the standard Modbus-RTU protocol to realize "remote control" function, transformation radio and communicate parameter can be set free by meter panel, for easy using, S series single-phase multifunction power meter can measure the all electrical parameter in the grid, and can extent the analog quantity transmitting output (4-20mA etc), one way RS485 communicate port and relay output function. This product conforms to standard of GB/T 22264.1-2008, GB/T 13978-2008.

2.Model No.

Specification

function	model	RM-858E-5S1	RM-858E-AS1	RM-858E-3S1	RM-858E-9S1	RM-858E-2S1	RM-858E-5SY	RM-858E-ASY	RM-858E-3SY	RM-858E-9SY	RM-858E-2SY
real-time	current	√	√	√	√	√	√	√	√	√	√
	voltage	√	√	√	√	√	√	√	√	√	√
	active/reactive	√	√	√	√	√	√	√	√	√	√
	factor	√	√	√	√	√	√	√	√	√	√
	frequency	√	√	√	√	√	√	√	√	√	√
measure	active	√	√	√	√	√	√	√	√	√	√
	reactive	√	√	√	√	√	√	√	√	√	√
	bidirection	√	√	√	√	√	√	√	√	√	√
pulse output	—	—	—	—	—	—	—	—	—	—	
switch output	selective	selective	selective	selective	selective	selective	selective	selective	selective	selective	selective
transmitting output	selective	selective	selective	selective	selective	selective	selective	selective	selective	selective	selective
communicate port	selective	selective	selective	selective	selective	selective	selective	selective	selective	selective	selective
display mode	LED	LED	LED	LED	LED	LED	LCD	LCD	LCD	LCD	LCD
hole size(mm)	91X45	67X67	76X76	91X91	111X111	91X45	67X67	76X76	91X91	111X111	

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single-phase AC current model selection

function	model	RM-858AI -DK1	RM-858AI -5K1	RM-858AI -AK1	RM-858AI -3K1	RM-858AI -9K1	RM-858AI -2K1	RM-858AI -5KY	RM-858AI -AKY	RM-858AI -3KY	RM-858AI -9KY	RM-858AI -2KY
AC current		√	√	√	√	√	√	√	√	√	√	√
switch output		selective	selective	selective	selective	selective	selective	selective	selective	selective	selective	selective
transmitting output		selective	selective	selective	selective	selective	selective	selective	selective	selective	selective	selective
communicate port		selective	selective	selective	selective	selective	selective	selective	selective	selective	selective	selective
display mode		LED	LED	LED	LED	LED	LED	LCD	LCD	LCD	LCD	LCD
hole size(mm)		45X45	91X45	67X67	76X76	91X91	111X111	91X45	67X67	76X76	91X91	111X111

single-phase AC voltage mode selection

function	model	RM-858AU -DK1	RM-858AU -5K1	RM-858AU -AK1	RM-858AU -3K1	RM-858AU -9K1	RM-858AU -2K1	RM-858AU -5KY	RM-858AU -AKY	RM-858AU -3KY	RM-858AU -9KY	RM-858AU -2KY
AC current		√	√	√	√	√	√	√	√	√	√	√
switch output		selective	selective	selective	selective	selective	selective	selective	selective	selective	selective	selective
transmitting output		selective	selective	selective	selective	selective	selective	selective	selective	selective	selective	selective
communicate port		selective	selective	selective	selective	selective	selective	selective	selective	selective	selective	selective
display mode		LED	LED	LED	LED	LED	LED	LCD	LCD	LCD	LCD	LCD
hole size(mm)		45X45	91X45	67X67	76X76	91X91	111X111	91X45	67X67	76X76	91X91	111X111

single-phase intelligent DC current model selection

function	model	RM-858DI -DK1	RM-858DI -5K1	RM-858DI -AK1	RM-858DI -3K1	RM-858DI -9K1	RM-858DI -2K1	RM-858DI -5KY	RM-858DI -AKY	RM-858DI -3KY	RM-858DI -9KY	RM-858DI -2KY
AC current		√	√	√	√	√	√	√	√	√	√	√
switch output		selective	selective	selective	selective	selective	selective	selective	selective	selective	selective	selective
transmitting output		selective	selective	selective	selective	selective	selective	selective	selective	selective	selective	selective
communicate port		selective	selective	selective	selective	selective	selective	selective	selective	selective	selective	selective
display mode		LED	LED	LED	LED	LED	LED	LCD	LCD	LCD	LCD	LCD
hole size(mm)		45X45	91X45	67X67	76X76	91X91	111X111	91X45	67X67	76X76	91X91	111X111

single-phase intelligent DC voltage model selection

function	model	RM-858DV -DK1	RM-858DV -5K1	RM-858DV -AK1	RM-858DV -3K1	RM-858DV -9K1	RM-858DV -2K1	RM-858DV -5KY	RM-858DV -AKY	RM-858DV -3KY	RM-858DV -9KY	RM-858DV -2KY
AC current		√	√	√	√	√	√	√	√	√	√	√
switch output		selective	selective	selective	selective	selective	selective	selective	selective	selective	selective	selective
transmitting output		selective	selective	selective	selective	selective	selective	selective	selective	selective	selective	selective
communicate port		selective	selective	selective	selective	selective	selective	selective	selective	selective	selective	selective
display mode		LED	LED	LED	LED	LED	LED	LCD	LCD	LCD	LCD	LCD
hole size(mm)		45X45	91X45	67X67	76X76	91X91	111X111	91X45	67X67	76X76	91X91	111X111

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single-phase intelligent active power, reactive power, factor model selection

function	model	RM-858P -DK1	RM-858P -5K1	RM-858P -AK1	RM-858P -3K1	RM-858P -9K1	RM-858P -2K1	RM-858Q -DK1	RM-858Q -5K1	RM-858Q -AK1
active power		√	√	√	√	√	√	—	—	—
reactive power		—	—	—	—	—	—	√	√	√
power factor		—	—	—	—	—	—	—	—	—
switch output		selective	selective	selective	selective	selective	selective	selective	selective	selective
transmitting output		selective	selective	selective	selective	selective	selective	selective	selective	selective
communicate port		selective	selective	selective	selective	selective	selective	selective	selective	selective
display mode		LED	LED	LED	LED	LED	LED	LED	LED	LED
hole size(mm)		45X45	91X45	67X67	76X76	91X91	111X111	45X45	91X45	67X67

single-phase intelligent voltage-frequency, voltage-current active power combined meter model selection(3-row display)

function	model	RM-858UIF -AK3	RM-858UIF -3K3	RM-858UIF -9K3	RM-858UIF -2K3	RM-858UIF -AKY3	RM-858UIF -3KY3	RM-858UIF -9KY3	RM-858UIF -2KY3	RM-858UIF -AK3
voltage		√	√	√	√	√	√	√	√	√
current		√	√	√	√	√	√	√	√	√
active power		√	√	√	√	√	√	√	√	—
power factor		—	—	—	—	—	—	—	—	√
switch output		selective	selective	selective	selective	selective	selective	selective	selective	selective
transmitting output		selective	selective	selective	selective	selective	selective	selective	selective	selective
communicate port		selective	selective	selective	selective	selective	selective	selective	selective	selective
display mode		LED	LED	LED	LED	LCD	LCD	LCD	LCD	LED
hole size(mm)		67X67	76X76	91X91	111X111	67X67	76X76	91X91	111X111	67X67

single-phase economic type AC current, voltage meter, DC current, voltage model selection

function	model	RM-858AI -DX1	RM-858AI -5X1	RM-858AI -AX1	RM-858AI -3X1	RM-858AI -9X1	RM-858AI -2X1	RM-858AV -DX1	RM-858AV -5X1	RM-858AV -AX1	RM-858AV -3X1	RM-858AV -9X1	RM-858AV -2X1
AC current		√	√	√	√	√	√	—	—	—	—	—	—
AC voltage		—	—	—	—	—	—	√	√	√	√	√	√
DC current		—	—	—	—	—	—	—	—	—	—	—	—
AC voltage		—	—	—	—	—	—	—	—	—	—	—	—
display mode		LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED
hole size(mm)		45X45	91X45	67X67	76X76	91X91	111X111	45X45	91X45	67X67	76X76	91X91	111X111

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RM-858Q -3K1	RM-858Q -9K1	RM-858Q -2K1	RM-858PF -DK1	RM-858PF -5K1	RM-858PF -AK1	RM-858PF -3K1	RM-858PF -9K1	RM-858PF -2K1
—	—	—	—	—	—	—	—	—
√	√	√	—	—	—	—	—	—
—	—	—	√	√	√	√	√	√
selective	selective	selective	selective	selective	selective	selective	selective	selective
selective	selective	selective	selective	selective	selective	selective	selective	selective
selective	selective	selective	selective	selective	selective	selective	selective	selective
LED	LED	LED	LED	LED	LED	LED	LED	LED
76X76	91X91	111X111	45X45	91X45	67X67	76X76	91X91	111X111

RM-858UIP -3K3	RM-858UIP -9K3	RM-858UIP -2K3	RM-858UIP -AKY3	RM-858UIP -3KY3	RM-858UIP -9KY3	RM-858UIP -2KY3
√	√	√	√	√	√	√
√	√	√	√	√	√	√
—	—	—	—	—	—	—
√	√	√	√	√	√	√
selective	selective	selective	selective	selective	selective	selective
selective	selective	selective	selective	selective	selective	selective
selective	selective	selective	selective	selective	selective	selective
LED	LED	LED	LCD	LCD	LCD	LCD
76X76	91X91	111X111	67X67	76X76	91X91	111X111

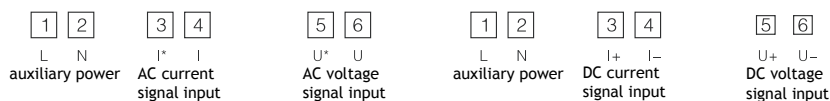
RM-858DI -DX1	RM-858DI -5X1	RM-858DI -AX1	RM-858DI -3X1	RM-858DI -9X1	RM-858DI -2X1	RM-858DV -DX1	RM-858DV -5X1	RM-858DV -AX1	RM-858DV -3X1	RM-858DV -9X1	RM-858DV -2X1
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
√	√	√	√	√	√	—	—	—	—	—	—
—	—	—	—	—	—	√	√	√	√	√	√
LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED
45X45	91X45	67X67	76X76	91X91	111X111	45X45	91X45	67X67	76X76	91X91	111X111

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3. Wiring diagram

single-phase intelligent digital meter wiring diagram(K series)



single-phase intelligent digital meter functional terminal wiring diagram(K series)

hole size	functional output terminal wiring diagram
111×111mm 91×91mm	
76×76mm	
67×67mm	
91×45mm	
45×45mm	

single-phase economic type intelligent digital meter wire diagram(X series)

