

# 多功能谐波仪表简介

## ●概述

MDTER 系列仪表主要应用于工矿企业、石油化工、钢铁冶金、轨道交通、公用设施、智能建筑等领域。具有 2-31 次谐波测量功能和 48 时段 4 费率的分时计量功能，能高精度的测量所有常用的电力参数，如三相电压、电流、有功功率、无功功率、频率、功率因数、四象限电度等。

MDTER series instruments are mainly used in industrial and mining enterprises, petrochemicals, steel and metallurgy, rail transit, public facilities, intelligent buildings and other fields. With time-division measurement function with 2-31 harmonic measurement function and 8-period 4 rate, it can measure all common power parameters with high precision, such as three-phase voltage, current, active power, reactive power, frequency and power factor. Four quadrants, etc.

🔔 谐波监测    🔔 功能齐全    🔔 体积小巧    🔔 接线方便

## ●技术参数

工作电源	交直流：85V~310V 或者交流：186V~264V, 功耗<2W		
Working power	AC/DC: 85V~310V or AC: 186V~264V, power consumption <2W		
电流输入	额定输入 5A, 最大测量为 1.2×In	Rs485 通讯波特率	1200、2400、4800、9600bps
Current input	Rated input 5A, maximum measurement is 1.2×In	Rs485 communication baud rate	1200、2400、4800、9600bps
电压输入	额定输入 0-450V, 最大测量 660V	Rs485 节点容量	32 个
Voltage input	Rated input 0-450V, maximum measurement 660V	Rs485 node capacity	32
显示屏	LCD 或者 LED 显示	Rs485 通讯协议	MODBUS-RTU 响应时间: 20ms
Display	LCD or LED display	Rs485 communication protocol	MODBUS-RTU response time: 20ms
防护等级	面板 IP50, 壳体 IP20	测量精度	U、I 0.2/0.5S, P、PF、EP 0.5/1.0S, Q、S、EQ 2.0S, F 0.02Hz, H B 级
Protection level	Panel IP50, housing Ip20	Measurement accuracy	U、I 0.2/0.5S, P、PF、EP 0.5/1.0S, Q、S、EQ 2.0S, F 0.02Hz, H B grade
安装方式	面板安装, 符合标准 DIN 尺寸	环境温度	-25℃~+55℃
Installation method	Panel mounted to standard DIN size	Ambient temperature	-25℃~+55℃
开关量输入	4 路, 无源干节点隔离输入, 隔离电压 1500VDC, 3-4 路可设置为脉冲计数, 内部带 24V 直流电源激励, 采集分辨率≤2ms		
Switch input	4 channels, passive dry node isolation input, isolation voltage 1500VDC, 3-4 channels can be set to pulse counting, internal with 24V DC power supply excitation, acquisition resolution ≤ 2ms		
继电器输出	2 路输出, 触点容量为 5A/30VDC 或者 5A/250VAC, 输出方式: 保持输出或者状态输出		
Relay output	2 output, contact capacity is 5A/30VDC or 5A/250VAC, output mode: keep output or status output		
模拟量输出	直流 4-20mA, 负载电阻≤600 欧姆 精度等级为 1 级, 可关联 U I F P Q S P f 等		
Analog output	DC 4-20mA, load resistance ≤600 ohms Accuracy class is 1 level, can be associated with U I F P Q S P f		
脉冲输出	脉冲常数为 5000imp/kWh 和 5000imp/kvarh, 脉冲宽度为 100ms		
Pulse output	The pulse constant is 5000imp/kWh and 5000imp/kvarh, and the pulse width is 100ms.		

## ●主要功能

测量功能	U、Us、Ua、Ub、Uc、Uab、Ucb、I、Is、Ia、Ib、Ic、IO、Pa、Pb、Pc、Psum、Qa、Qb、Qc、Qsum、Sa、Sb、Sc、		
Measuring	S、Pfa、Pfb、Pfc、Pf、F		
输入输出	I/O,, 4-20ma 直流变送输出, 电能脉冲输出、计数		
I/O	I/O, 4-20ma DC transmission output, energy pulse output, counting		
谐波监测	奇次、偶次、总畸变率, 2-31 次谐波	计量功能	WH     varH  , +WH、-WH, +varH、-varH, QV
Harmonic	Odd, even, total distortion rate, 2-31 harmonic	Metering	
统计功能	+WH、-WH, +varH、-varH 最大需量、电参量越限告警、极值统计以及发生的时间	通讯功能	Rs485 通讯接口, 通讯规约 MODBUS-RTU
Statistics	+WH, -WH, +varH, -varH maximum demand, electrical parameter violation limit alarm, extreme value statistics, and time of occurrence	Communication	Rs485 communication interface, communication protocol MODBUS-RTU

## ●产品选型

品牌代码	-	相数	功能	尺寸	显示
Brand code	-	Phase	Features	size	Display
MDTER	-		m:多功能 Multifunction		
	-	t:三相 Three phase	h:谐波监测 Harmonic detection	72:72*72	lcd:液晶
	-	s:单相 single- phase	i:电流 Current	96:96*96	led: 数码管
	-		u:电压 Voltage		