

DTSD1352-xSyD Series Rail Type Multiloop Powermeter



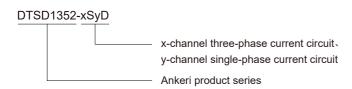


General

DTSD1352-xSyD series rail type multi-loop power meters are mainly used for measuring the full electric parameters of multiple three-phase circuits,Up to X three-phase loopand Y one-phase loop current inputs can be connected simultaneously.It Can measure voltage and current, power, power factor, phase angle, unbalance, harmonic and other parameters.

Product Specification

◆ Topic module naming rule



Specification and model of matching transformer

	Voltage ecification	Instrument model	Current specification	Matching current transformer	note
3×2	×220/380V	DTSD1352 - xSyD	3×250A	AKH-0.66/W-20Y Class 0.2	For three phase
			3×100A	AKH-0.66/Z-15Y Class 0.2	For three phase
			1×100A	AKH-0.66/W-12Y Class 0.2	For single phase

Technical parameter

Auxiliary	power supply	AC/DC 85 ~ 265V;power consumption≤10VA		
	Frequency	45∼65Hz		
Input signal	voltage	Rated value:AC 3×220V/380V Overload:1.2 times rated value (continuous) 2 times rated value/1 second Power consumption:≤ 0.5VA (per channel)		

			Rated value:AC 250A,100A;(external closed port transformer				
Input	Cur	Current		Overload:1.2 times rated value (continuous)			
signal	Garron		10times rated value/1 second				
			Power consumption:≤ 0.5VA (per channel)				
			Frequency 0.05Hz,voltage and current class 0.5,				
Measure	ment a	ccuracy	active energy class 1,reactive energy class 2				
			2-31 harmonic accuracy: ±1%				
	<u>'</u>		Output mode:optocoupler pulse with open collector				
Function			(one out of two with active input)				
			RS485 interface、Modbus-RTU protocol/QZTT 1017-2015				
			technical specification for China Tower smart meter				
			Baud rate 1200~38400				
		Input	4-channels passive dry contact input, built-in power supply				
Function	Switch		2-channels active wet node input,identify engine oil and				
Function	-ing		power connection(or pulse output)				
	value		Output mode:relay normally open contact output				
			Contact	rating:AC 250V/3A DC 30V/3A			
Security	Power frequency withstand voltage			>AC 2kV/1min			
,	Insulation resistance			Input and output end to housing			
Environment				Working temperature:-20 ℃ ~+60 ℃			
				Storage temperature:-40 ℃ ~+70 ℃			
Environment Electromagnetic compatibility				Relative humidity:≤95% no condensation			
				Altitude:≤2500m			
			oatibility	Better than level 3			

◆ Product function

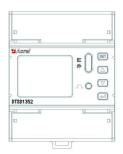
Function	Description		
M	All electrical parameters of x-channel three-phase and		
Measurement of energy	y-channel single-phase circuits are measured		
Electrical parameters	U、I、F、P、Q、S、PF		
Harmonic	2-31st voltage and current harmonic		
Extreme value record	U、I、P		
Alarm output	Over voltage Over current Phase break DI linkage		
Rate setting	4 rate time zone 14		
Pulse output	Output mode: optocoupler pulse with open		
r dise output	collector(one out of two with active input)		
communication	RS485 interface、Modbus-RTU		
communication	Baud rate 1200 ~ 38400		
	4-channels passive dry contact input,built-in power supply		
DI	2-channels active wet node input,identify engine oil		
	and power connection(or pulse output)		
DO	Output mode:relay normally open contact output		
ьо	Contact rating: AC 250V/3A DC 30V/3A;		

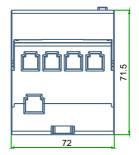


Dimension and installation

unit:mm

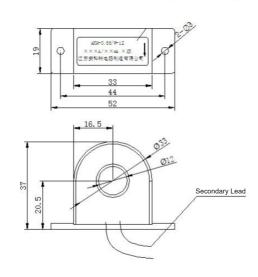
(1)DTSD1352 - xSyD series main part dimensions





	Dimension				Rail size	tolerance
Single module	long	width	high	Withterminal length	Itali Size	tolerance
	87.8	72	71.5	97.7	35	±1

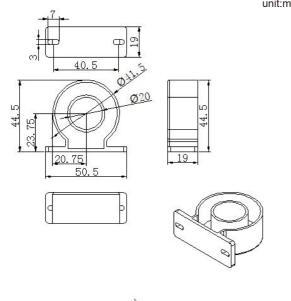
unit:mm

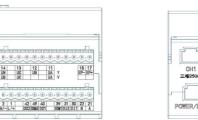


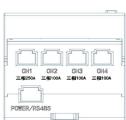
Note: three transformers of three-phase circuit share the same harness.

(2)dimension of transformer





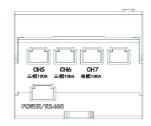




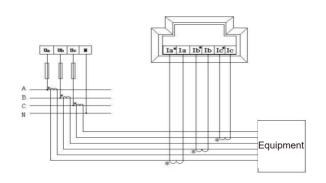
Upper terminal of module

Wiring

Lower terminal block of module 1

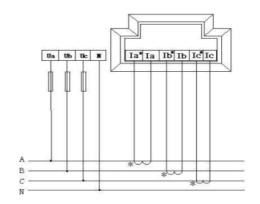


Lower terminal block of module 2

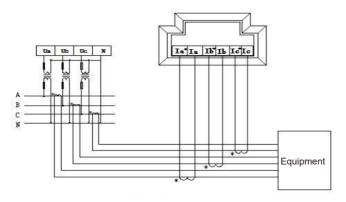


Three phase four wire (current secondary input)

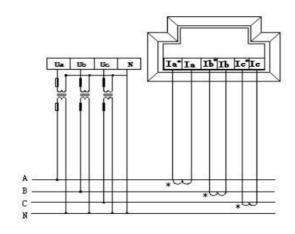




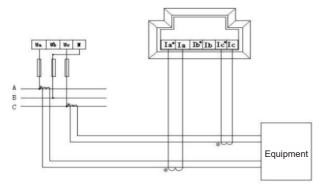
Three phase four wire (direct current input)



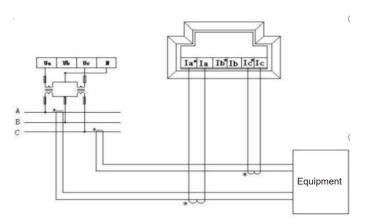
Three phase four wire (secondary connection of voltage and current)



Three phase four wire (direct connection of voltage and current)



Three phase three wire (current connected through transformer)



Three phase three wire

(voltage and current connected through transformer)

Operation guide

Panel description

SET key	In measurement mode, press this key to enter programming mode. The meter prompts for a password. After entering the correct password (0001), the meter can be programmed. In programming mode, it is used to return to the previous menu.			
Up key(▲)	In measurement mode, for switching circuits; In programming mode, it is used to switch the number of digits in the same level menu or data			
Down key(▼)	In measurement mode, it is used to switch display items; In programming mode, it is used to switch the menu of the same level or increase the number of digits.			
ENTER key	In measurement mode, it is used to switch display items; In programming mode, it is used to confirm the selection of menu items and confirm the modification of parameters.			