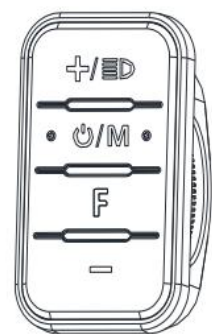
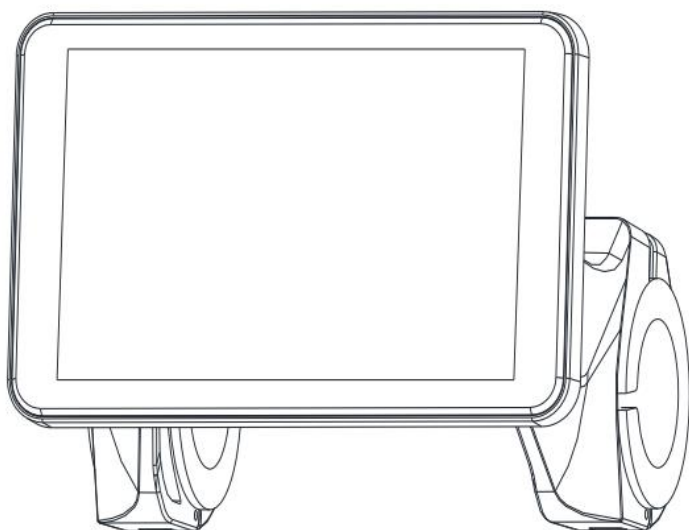
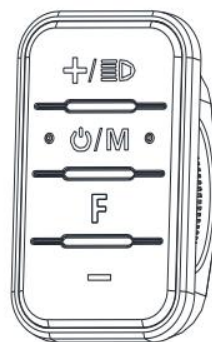
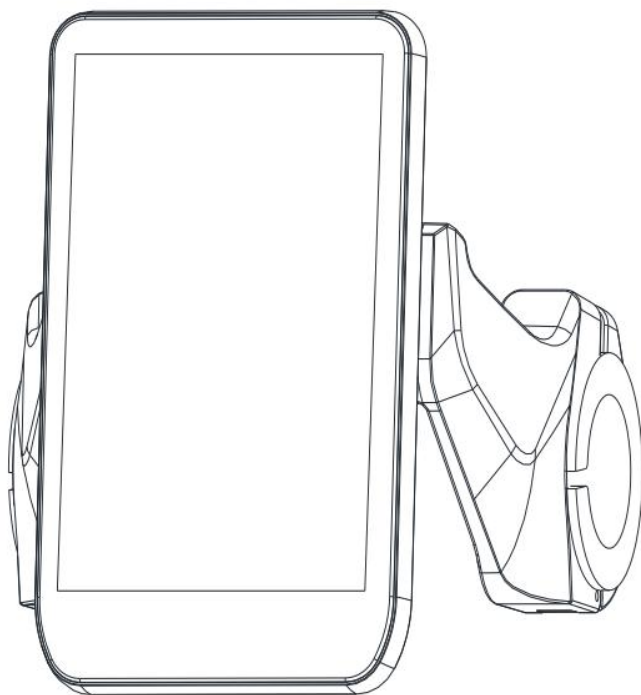


VM- T6 (Vertical Screen) & VM- T8 (Horizontal Screen)

Series Meters User Manual



1. Overview

This meter is suitable for various electric bicycles, mountain bikes, etc. It features an attractive design, clear LCD display, and stable performance.

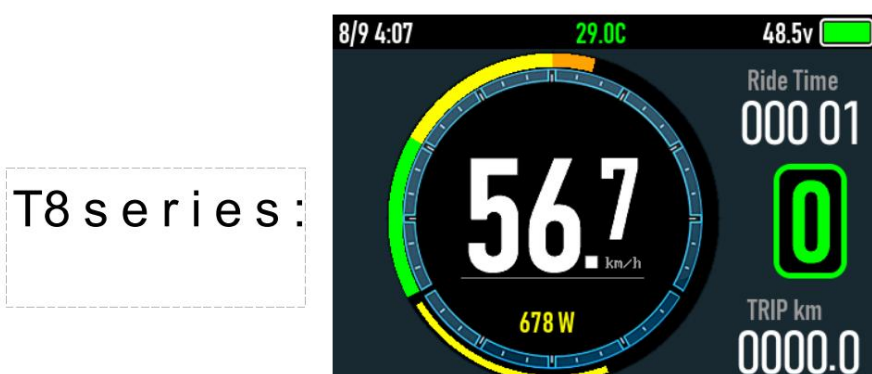
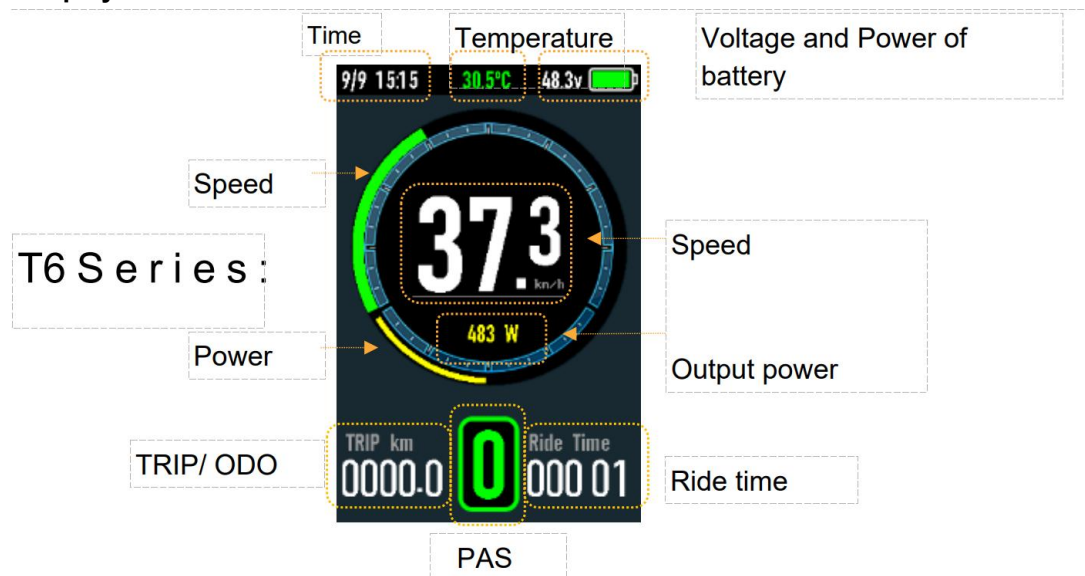
- Wide input voltage range: supports DC **24V, 36V, 48V, 52V, 60V, 72V**.
- Integrated with common controller communication protocols; protocols can be selected via settings.

2. Terminal Definition

Color	5-pin Plug*					Optional 2/3-pin Plug**		
Red	Blue	Black	Green	Yellow	Brown	White	Orange	
Definition	Power +	Ignition	Power -	Rx	Tx	Headlight +	Headlight -	Custom
Direction	Input	Output	Input	Input	Output	Output	Output	Custom

*Default terminal: 5-pin. Other wiring or definitions must be specified separately.

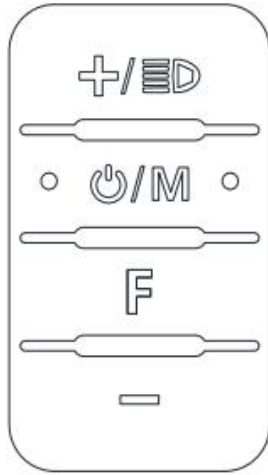
3. Display Screen



3.1 Icon Meanings (varies by model)

	Riding time (hours:minutes)
	Single trip / total mileage
	PAS level
	Current speed; upper shows average / max speed
	Current motor output power
	Date / time (MM/DD HH:MM)
	Temperature: °C / °F
	Battery Voltage & Level::  (Full) →  (Medium)  (Low)  Flashing (undervoltage)
	Cruise control icon
	Push assist icon
	Headlight ON
	Auto headlight active
	Brake fault
	General error alarm

4. Operation & Configuration



Buttons (top to bottom): **UP / + / Light** • **M / Power / Menu** • **F Function** • **DOWN / -**

Basic Operations

- Power on (off): Long press **M**
- Power off: Long press **M**
- Switch TRIP ↔ ODO: Short press **M**
- Increase assist level: Short press **UP**
- Decrease assist level: Short press **DOWN**
- Switch speed view: Short press **F** (current → max → average; auto return in 5s)
- Toggle headlight: Long press **UP**
- Toggle cruise / 6km boost: Long press **DOWN**
- Enter basic settings: Long press **UP + DOWN**
- Enter advanced settings: Long press **F + UP + DOWN**
- Clear ride time & TRIP: Long press **F + UP**; long press **UP** to clear

Parameter Setting Mode

- Use **UP / DOWN** to select items
- Short press **M** to edit values; adjust with **UP / DOWN**
- Long press **UP + DOWN** to save & exit

VICTOR METER CONFIG	
P10: Drive Mode	2
P11: Assist Sensitivity	1
P12: Assist Strength	3
P13: Assist Magnetic Type	8 Mag
P14: Current Limit	12
P16: ODO Reset	0006 km
P17: Power Watt Max	1000
P18: Power On Gear	Saved
P19: Temp Unit	°F

VICTOR METER CONFIG	
P10: Drive Mode	2
P11: Assist Sensitivity	1
P12: Assist Strength	3
P13: Assist Magnetic Type	8 Mag
P14: Current Limit	12
P16: ODO Reset	0006 km
P17: Power Watt Max	1000
P18: Power On Gear	Saved
P19: Temp Unit	°C

5. Parameter Settings

F = visible only in advanced mode. Public parameters are the same; specific parameters vary by protocol.

Common Parameters

Item	Max	Min	Default	Description
F01: Communication Protocol	--	--	2#	2#: Compatible with Protocol No. 2; 5S: Compatible with 5S protocol; KDS: Compatible with KDS protocol; J: Compatible with J protocol; APT 1.3: Compatible with APT protocol; BaFang: : Compatible with the BF protocol (data rate 1200,9600)
F02: Send Config	--	--	No	Enter parameter transmission mode. Yes: After confirmation, save. This instrument will enter the parameter transmission mode. The configuration parameters of this machine will be sent out through the communication port and can be received by instruments of the same model and version. No: Do not enter this mode.
T01: Clock Adj	--	--	--	Set clock
U01: Language	--	--	--	UI language
U02: Power Watt Max	9999	10	1000	Max power display
U03: Power On Level	--	--	Saved	The level position value at startup. Saved: The last saved level position; 0 or 1: Forced to 0 level (1 level is used instead of 0 level when it is not available); Level 1: Forced to 1 level; ... Level 5: Forced to 5 Level;

Item	Max	Min	Default	Description
U04: Temp Unit	--	--	°C	Temperature unit: Celsius or Fahrenheit;
U06: ODO Reset	--	--	--	ODO reset.
U07: Light Setting	100	0	85	Automatic Headlight Setting. (Optional Function) 0: Manual control, no use of automatic headlights; 1 - 100: Use automatic control for headlights, sensitivity level: 1: Most sensitive: Turn on when the outside light is slightly dim; 100: Least sensitive: Turn on only when the outside light is very dim
P01: Backlight Level	3	1	3	Backlight brightness. Brightness: 1 level (darkest) to 3 levels (brightest);
P02: Unit	--	--	Metric	Metric: Km; Imperial: Mile;
P03: Battery Voltage	72	24	48	48V;
P04: Auto-Sleep time	60	0	0	Sleeping time (unit: minutes); 0: No sleep
P05: PAS Level	--	--	0-5	Level range (optional: 0-3, 1-3, 0-5, 1-5, 0-9, 1-9)
The following parameters 2# are specific to the protocol.				
P06: Wheel Diameter	999.9	000.0	026.0	Wheel diameter. Unit: feet
P07: Speed Magnets Number	120	001	046	Number of speed detection magnetic steel pieces
P08: Speed Limit	100	000	100	Speed limit (unit: km/h); 100: No speed limit;
P09: 0/Non-0 Start	1	0	0	Startup mode; 0 Start: Zero start; Non-0 Start: Non-zero start;
P10: Drive Mode	--	--	Ass+Ele	Drive mode; Assist: Assistance; Electric1: Electric drive; Ass+Ele: Assistance and Electric drive
P11: Assist Sensitivity	24	01	01	Enhance sensitivity;
P12: Assist Strength	5	0	3	Assist startup intensity;
P13: Assist Magnetic Type	12	5	5	5,8,12 three types
P14: Current Limit	100	001	012	Unit: A
The following parameters are unique to the 5S protocol				
P06: Wheel Diameter	--	--	26in	Wheel: 16in, 18in, 20in, 22in, 24in, 26in, 700c, 28in;
P07: Speed Magnets Number	31	1	1	Number of speed detection magnetic steel pieces;
P08: Speed Limit	41	10	41	Speed limit (unit: km/h)

Item	Max	Min	Default	Description
P09: 0/Non-0 Start	1	0	0	Startup mode; 0 Start: Zero start; Non-0 Start: Non-zero start;
P11: Assist Sensitivity	24	01	02	Enhance sensitivity;
P12: Assist Strength	3	0	0	Assist startup intensity;
P13: Assist Magnetic Type	12	5	5	5,8,12 , t h r e e t y p e s
P14: Current Limit	31	01	12	Unit A;
P51: Assist Driection	1	0	0	Assist Driection
P52: Handle has Level	--	--	No	Handle has level
P53: 6Km Fuction	--	--	No	6km/h function
The following parameters are unique to KDS protocol				
P06: Wheel Diameter	255	1	16	Wheel Diameter。Below 32 i n c h ; Above 32 c m 。
P07: Speed Magnets Number	63	1	1	Speed Magnets Number;
P08: Speed Limit	63	0	63	Speed limit (unit: km/h);
P09: 0/Non-0 Start	1	0	0	Startup mode; 0 Start: Zero start; Non-0 Start: Non-zero start;
P12: Assist Strength	5	0	3	Assist Strength。
P13: Assist Magnets Number	24	1	8	Assist Magnets Number。
P14: Current Limit	31	01	12	Current limit (Unit: A);
P52: Handle has Gear	--	--	No	Handle has level
P53: 6Km Fuction	--	--	No	6km/h function
The following parameters are unique to J protocol				
P06: Wheel Diameter	--	--	26in	Wheel Diameter。(16in, 18in, 20in, 22in, 24in, 26in, 700c, 28in);
P08: Speed Limit	42	10	42	Speed limit (unit: km/h)
The following parameters are unique to APT protocol				
P06: Wheel Diameter	999.9	000.0	026.0	Wheel Diameter。Unit: inch
P08: Speed Limit	100	000	100	Speed limit (unit: km/h) ;
P14: Current Limit	50	01	12	Current limit (Unit: A);
The following parameters are unique to Bafang protocol				
P06: Wheel Diameter	999.9	000.0	026.0	Wheel Diameter。Unit: inch
P08: Speed Limit	100	000	100	Speed limit (unit: km/h)
The following parameters are unique to Kuntu protocol				
P08: Speed Limit	72	10	25	Speed limit (unit: km/h)

Item	Max	Min	Fefault	Description
P06: Wheel Diameter	--	--	26in	Wheel Diameter。 6in, 8in, 10in, 12in, 14in, 16in, 18in, 20in, 22in, 24in, 26in, 700c, 28in, 29in;
KT.P1: Motor Parameter	255	1	25	Motor Parameter。
KT.P2: Wheel Pulse Signal	6	0	1	Wheel Pulse Signal。
KT.P3: Assist Mode	--	--	Speed	Torque: Speed:
KT.P4: Throttle Startup	1	0	0	Throttle Startup 0 Start: Zero Start; Non-0 Start: Non-Zero Start;
KT.P5: Power Monitoring	64	0	12	Power Monitoring
KT.C1: Assist Sensor Parameter	15	0	1	Assist Sensor Parameter。
KT.C2: Motor Phase Type	1	0	0	Motor Phase Type。
KT.C4: Throttle Function	5	0	0	Throttle Function。
KT.C4L: Throttle Speed Limit	75	0	20	Throttle Speed Limit。(C4=2);
KT.C4G: Gear 1 Assist Percent	63	1	50	Gear 1 Assist Percent。(C4=4);
KT.C5: Maximum Current	10	0	10	Maximum Current。
KT.C7: Cruise Function	--	--	No	Cruise Function。
KT.C8: Show Motor Temperature	1	0	0	Show Motor Temperature。
KT.C12: Motor Min Voltage	7	0	4	Motor Min Voltage。
KT.C13: ABS and Charge	5	0	0	ABS and Charge。
KT.C14: Assist Tweaking	3	1	2	Assist Tweaking。
KT.L1: Auto Under-Voltage	3	0	0	Auto Under-Voltage 。
KT.L2: Super High-Speed Motor	1	0	0	Super High-Speed Motor。
KT.L3: Dual Mode Controller	1	0	1	Dual Mode Controller。

6.Error Codes

Code	Description	Recommended Action
6	Low Battery	Charge; check P03
7	Motor Fault	Service center
8	Throttle Fault	Service center
9	Controller Fault	Service center
10	Comm RX Error	Check wiring
11	Comm TX Error	Service center