

# 8198 instruction of meter

Product name : Meter (with Bluetooth function)

Brand : CTE TECH CORP.

Model : 8198

## 1. Product explanation :

Vehicle device for large-sized motorcycle and provides a status of vehicle.

This meter can display such as vehicle speed, fuel quantity, total mileage, short mileage, battery voltage, indicator light, time, gear position, remaining mileage, average speed, average fuel efficiency, time functions, and also provides users with the operation of the meter buttons to set the suitable interface for the users.

Meter button operation:

L can switch mileage mode: Change the mileage mode ODO>>TRIP A>>TRIP B>>ODO

R can switch driving status: instantaneous fuel consumption->>average fuel consumption>>remaining mileage>>average speed>>walking time-->battery voltage--instant fuel consumption

## 2. Specification :

System specification

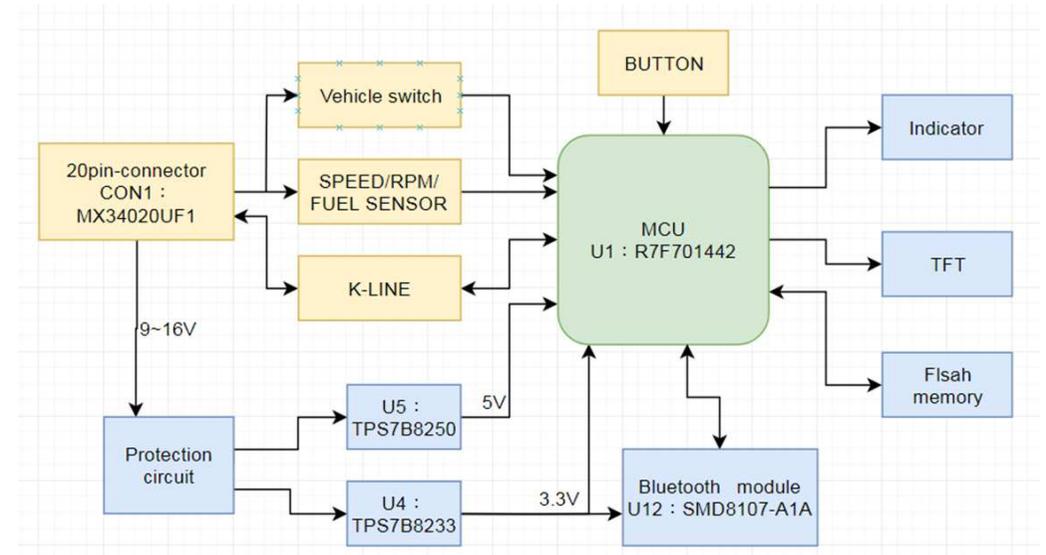
Description	Content
Size of main body	158.5*103.4*54mm
Wired connection interface	20pin connection interface
Wireless connection interface	Bluetooth (BLE5.0)
APP	Rideology
Outer case material	AES+PMMA
Weight	305g
Operating Voltage	DC 9V~16V +/-0.5V
Operating Current	150mA~500mA
Quiescent Current (Key OFF)	0.8mA
Operating temperature	-20~70°C
Storage temperature	-30~80°C
Random Access Memory	4MB

### 3. Input/output interface characteristics :

PIN	Description	Input /Output	Electrical characteristics
1	BAT	Input	Battery power
2	IGN	Input	Key ON/OFF 12V , High will be ON, Low will be OFF
3	GND		GND
4	NEUTRAL	Input	NEUTRAL
5	OIL	Input	OIL
6	ABS	Input	ABS
7	KTRC	Input	KTRC
8	ECU	Input /Output	ECU
9	SPEED	Input	SPEED
10	TACHO	Input	TACHO
11	FUEL	Input	FUEL
12	AGND		Analog Ground
13	TURN-L	Input	12V, High will be ON, Low will be OFF
14	TURN-R	Input	12V, High will be ON, Low will be OFF
15	HB	Input	12V,High will be ON, Low will be OFF.
16	ETC R	Input	5V, High will be ON, Low will be OFF.
17	ETC N	Input	5V High will be ON, Low will be OFF.
18	K.S.O	Input /Output	Connect to KVCS(Kawasaki Vehicle Communication System)
19	UP SW	Input	Switch mileage mode
20	DOWN SW	Input	Switch driving mode

### 4. Figure of circuit system block diagram :

Bluetooth module : SMD8107-A1A



## 5. Bluetooth connection :

5-1. Follow below instructions to establish connection between the dashboard and user device :

Step 1:



Short press of left button to change the ODO display to TRIP A display , then long press of left and right buttons to enter Menu.

Step 2:



Short press of left button to move the selection to Bluetooth then short press of right button to enter Bluetooth setting.

Step 3:



Short press of right button to enter Bluetooth ON/OFF setting.

Step 4:



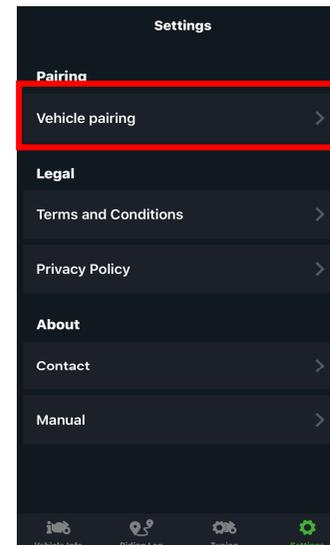
Short press of left button to move the selection to ON then short press of right button to confirm.

Step 5:

Run the Rideology APP on your device.

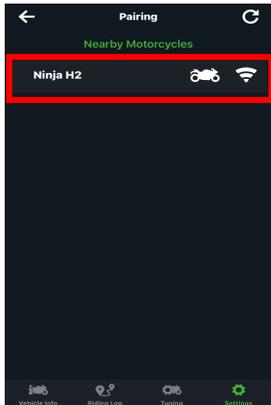


Step 6:



Setting>>Pairing Vehicle pairing

Step 7:



Choose "Ninja H2" for pairing.

Step 8:



Step 9:



Input the Pass Key displayed on the dashboard to establish the connection.

Step 10:



Connection established

6. Bluetooth E-Label display :

Step 1:



Short press of left button to change the ODO display to TRIP A display , then long press of left and right buttons to enter Menu.

Step 2:



Short press of left button to move the selection to Bluetooth then short press of right button to enter Bluetooth setting.

Step 3:



Short press of left button to the second page and the E-Label will be shown.

E-Label :

FCC ID : 2AS3E-8198

IC : 24983-8198

NCC Certificate no.: CCAN19LP0630T7

 <p><b>ANATEL</b> Agência Nacional de Telecomunicações <b>XXXXX-yy-XXXXX</b></p>	<p>모델명: 8198 응모자: CTE TECH CORP. 제조일: 별도표기 제조사: CTE TECH CORP. 원산지: 대만 MISP-CMM-APA-XXXXX</p>	 <p><b>MCMC</b> CIDFXXXXXXXX</p>
	<p>NTC Type Accepted XXXXXXXXXXXXXX</p>	
<p>"Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados".</p>	 	 <p>XXX-XXXXXX</p>
<p>FCC ID : 2AS3E-8198      Model : 8198 IC : 24983-8198          Applicant : CTE TECH CORP. HVIN : 8198                CMIIT ID : xxxxxxxxxxxx</p>	<p>CCAN19LP0630T7</p>	<p>xxxx/SDPPI/yyyy XXXX</p>

### **FCC Statement:**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### **IC Statement:**

This device complies with Industry Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

### **Taiwan regulatory information(NCC)**

## 低功率電波輻射性電機管理辦法

第十二條 經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

警語：

- 1) 電磁波警語：減少電磁波影響，請妥適使用(無線電信終端設備適用)、
- 2) 視力保護警語：使用過度恐傷害視力，建議每天看螢幕不超過 1 小時。