

## **Installation**

- Turn the key to ON position
- Plug the OBD-II connector
- The screen will display the message



**Designed by  
DAISU LTD.,PART**

- Approximately 3 seconds the Smart gauge will start to scan the ECU



**ECU Searching...  
Please wait**

**Note: - If the identified ECU not found ,the Smart gauge will be shut down within 10 seconds**

- **The Smart gauge will automatically shut down when the engine stop and the key turned to OFF position**

## LCD back light intensity adjustment

- Press the LEFT button to decrease the intensity
- Press the RIGHT button to increase the intensity

## Read the diagnostic trouble code (DTC)

- Press ENT button the screen will display message



**1.READ DTC**  
**2.CLEAR DTC**

- Press ENT button to select the menu “1.READ DTC” the screen will display the message



**DTC READING**  
**PLEASE WAIT**

- Approximately 10 seconds the Smart gauge will display the report message



**DTC READ REPORT**  
**0 DTCs found**

If no DTC the screen will display the message and back to main menu within 5 seconds



**DTC READ REPORT**  
**2 DTCs found**

If DTC found,the screen will display amount of DTC and switch to the first DTC detail within 5 seconds automatically



**P0193 Fuel rail pressure**  
**High Input**

## Clear the diagnostic trouble code

- Press the ENT button ,move the cursor to “2.CLRAR DTC”



**1.READ DTC**  
**2.CLEAR DTC**

- Press the ENT button ,the screen will display the message



**DTC CLEARING**  
**PLEASE WAIT**

- Approximately 10 seconds the Smart gauge will display the report message and return to main menu within 5 seconds



**DTC CLEAR REPORT**  
**CLEAR SUCCESSFUL**

## Display mode setup

- Press the ENT button the screen will display the main menu. Move the cursor to “3.DISPLAY”



3.DISPLAY  
4.PARAMETER

- Press the ENT the screen will display



DISPLAY MODE  
MODE: 0

- Press the LEFT or RIGHT buttons to select the display mode  
MODE 0: 3 parameters per page will be displayed  
MODE 1: 1 parameter per page will be displayed
- Press the ENT button to return to main menu

## Parameters setup

**KML SCALE : the constant data to calculate the estimated fuel consumption (Not applicable for Mitsubishi Triton)**

**KML ACG. : the estimated fuel consumption average period (Not applicable for Mitsubishi Triton)**

**KMH CAL. : the constant data to correct the KMH error**

- Press the ENT button, move the cursor to “4.PARAMETER”



3.DISPLAY  
4.PARAMETER

- Press the ENT button to enter the parameter setup menu

**KML SCALE : 20.0**  
**KML AVG. : 5**

Press the UP or DOWN to move the cursor

Press the LEFT or RIGHT to edit the data

**KMH CAL. : 1.00**  
**EXIT**

Move the cursor to "EXIT" ,press the ENT button to save the data and return to main menu

### **Alarm setup**

RPM(HI) This function will be activated when the engine speed (RPM) over the setpoint. The yellow LED lit until the RPM lower than the setpoint

ECT(HI) This function will be activated when the engine coolant temperature (ECT) over the setpoint.The red LED lit and buzzer activated until the ECT lower than the setpoint

VBATT(LO) This function will be activated when the car battery voltage (BATT) lower than the setpoint.The red LED lit and buzzer activated until the BATT voltage more than the setpoint

- Press the ENT button,move the cursor to "5.ALARM SETUP"

**5.ALARM SETUP**  
**6.RESET ECU**

- Press the ENT button the screen will display

**RPM(HI) : 2500**  
**ECT(HI) : 90**

- Press the UP or DOWN button to select the alarm parameter
- Press the LEFT or RIGHT button to edit the data

**VBATT: 12.0**  
**EXIT**

- Move the cursor to "EXIT" ,press the ENT button to save the data and return to main menu

## MODE 0 Real time data display

IAT1	IAT2	ECT
30	30	30

- IAT1 (Intake Air Temperature sensor1,located before inter-cooler) **Unit: Degree Celsius**
- IAT2 (Intake Air Temperature sensor2,located after inter-cooler) **Unit: Degree Celsius**
- ECT (Engine Coolant Temperature) **Unit: Degree Celsius**

ECT	FTM	BATT
30	30	12.4

- ECT (Engine Coolant Temperature) **Unit: Degree Celsius**
- FTM (Fuel temperature) **Unit: Degree Celsius**
- BATT (Battery voltage) **Unit: Volt**

ACP1	ACP2	TPS
11	20	10

- ACP1 (Accelerator pedal sensor1) **Unit: %**
- ACP2 (Accelerator pedal sensor2) **Unit: %**
- TPS (Throttle position) **Unit: %**

TPS	RPM	KMH
10	700	0

- TPS (Throttle position) **Unit: %**
- RPM (Engine speed) **Unit: revolution per minute (rpm)**
- KMH (Vehicle speed) **Unit: kilometer per hour**

EGR	TPS	RPM
0	10	700

- EGR (Exhaust Gas Re-circulate valve position) **Unit: %**
- TPS (Throttle position) **Unit: %**
- RPM (Engine speed) **Unit: revolution per minute (rpm)**

<b>RPM</b>	<b>MAP</b>	<b>TBP</b>
<b>700</b>	<b>100</b>	<b>0.0</b>

- **RPM (Engine speed) Unit: revolution per minute (rpm)**
- **MAP (Manifold pressure) Unit: kilo pascal (kPa)**
- **TBP (Turbo Boost Pressure) Unit: pounds per square inch (psi)**

<b>RPM</b>	<b>KMH</b>	<b>TPB</b>
<b>40</b>	<b>700</b>	<b>0</b>

- **RPM (Engine speed) Unit: revolution per minute (rpm)**
- **KMH (Vehicle speed) Unit: kilometer per hour**
- **TBP (Turbo Boost Pressure) Unit: pounds per square inch (psi)**

<b>ECT</b>	<b>BATT</b>	<b>TBP</b>
<b>40</b>	<b>700</b>	<b>699</b>

- **ECT (Engine Coolant Temperature) Unit: Degree Celsius**
- **BATT (Battery voltage) Unit: Volt**
- **TBP (Turbo Boost Pressure) Unit: pounds per square inch (psi)**

<b>RPM</b>	<b>KMH</b>	<b>CRP</b>
<b>700</b>	<b>0</b>	<b>25</b>

- **RPM (Engine speed) Unit: revolution per minute (rpm)**
- **KMH (Vehicle speed) Unit: kilometer per hour**
- **CRP (Commonrail pressure) Unit: mega pascal (Mpa)**

<b>TPS</b>	<b>RPM</b>	<b>CRP</b>
<b>0</b>	<b>11</b>	<b>25</b>

- **TPS (Throttle position) Unit: %**
- **RPM (Engine speed) Unit: revolution per minute (rpm)**
- **CRP (Commonrail pressure) Unit: mega pascal (Mpa)**

<b>ECT</b>	<b>FTM</b>	<b>IAT2</b>
<b>30</b>	<b>700</b>	<b>29</b>

- **ECT (Engine Coolant Temperature) Unit: Degree Celsius**
- **FTM (Fuel temperature) Unit: Degree Celsius**
- **IAT2 (Intake Air Temperature sensor2,located after inter-cooler) Unit: Degree Celsius**

<b>EGR</b>	<b>RPM</b>	<b>CRP</b>
<b>0</b>	<b>700</b>	<b>25</b>

- **EGR (Exhaust Gas Re-circulate valve position) Unit: %**
- **RPM (Engine speed) Unit: revolution per minute (rpm)**
- **CRP (Commonrail pressure) Unit: mega pascal (Mpa)**



## MODE 1 Real time data display

Engine coolant  
30 C

Engine Coolant Temperature **Unit: Degree Celsius**

Intake Air Temp1  
30 C

Intake Air Temperature sensor1,  
located before inter-cooler **Unit: Degree Celsius**

Intake Air Temp2  
30 C

Intake Air Temperature sensor2,  
located after inter-cooler **Unit: Degree Celsius**

Fuel temperature  
45 C

Fuel temperature **Unit: Degree Celsius**

Manifold pressure  
100 kPa

Manifold pressure **Unit: kilo pascal (kPa)**

Commonrail pressure  
25 MPa

Commonrail pressure **Unit: mega pascal (Mpa)**

Vehicle speed  
0 KMH

Vehicle speed **Unit: kilometer per hour (KMH)**

Engine speed  
700 rpm

Engine speed **Unit: revolution per minute (rpm)**

EGR position  
0 %

Exhaust Gas Re-circulate valve position **Unit: %**

**ACC pedal pos1**  
**10 %**

**Accelerator pedal position sensor1 Unit: %**

**ACC pedal pos2**  
**20 %**

**Accelerator pedal position sensor2 Unit: %**

**Battery voltage**  
**12.4 V**

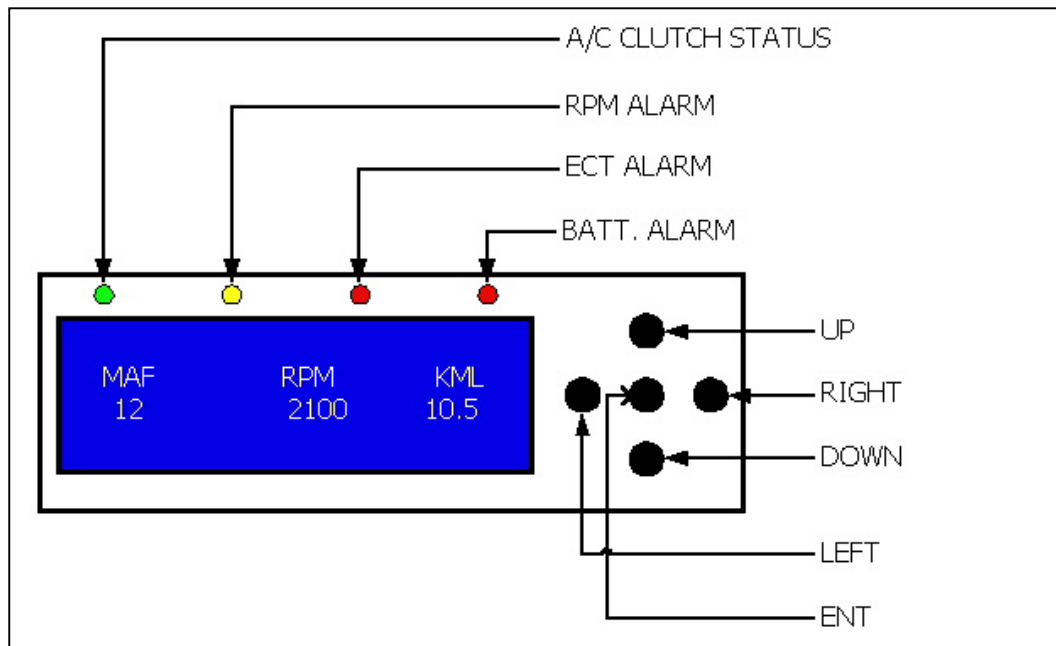
**Battery voltage Unit: volt**

**ECU response**  
**5 mS**

**ECU response, the communication speed between  
car's ECU and Smart gauge Unit: mS**

## Parameters table

<b>ACP1</b>	<b>Accelerator pedal position sensor1</b>	<b>%</b>
<b>ACP2</b>	<b>Accelerator pedal position sensor2</b>	<b>%</b>
<b>BATT</b>	<b>Battery voltage</b>	<b>V</b>
<b>CRP</b>	<b>Commonrail pressure</b>	<b>MPa</b>
<b>ECT</b>	<b>Engine coolant temperature</b>	<b>°C</b>
<b>EGR</b>	<b>Exhaust gas re-circulate valve position</b>	<b>%</b>
<b>FTM</b>	<b>Fuel temperature</b>	<b>°C</b>
<b>IAT1</b>	<b>Intake air temperature sensor1,located before inter-cooler</b>	<b>°C</b>
<b>IAT2</b>	<b>Intake air temperature sensor2,located after inter-cooler</b>	<b>°C</b>
<b>KMH</b>	<b>Vehicle speed</b>	<b>KMH</b>
<b>MAP</b>	<b>Manifold pressure</b>	<b>KPa</b>
<b>RPM</b>	<b>Engine speed</b>	<b>RPM</b>
<b>TBP</b>	<b>Turbo boost pressure</b>	<b>psi</b>



**Dimensions: 120 x 48 x 30 mm (WxHxD)**

**Weigh : 300 grams**