ACEWELL® ATV/Motorcycle Computer
ACE-2XX User Manual

Thanks for purchasing this ATV/Motorcycle/Scooter computer; this manual is designed for ACE-2XX series. Each model has 4-6 LED indicators.
Different model has different LED indicators. You may found above photo has different LED indicators from your computer; the photo above is for reference only.

English

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PANEL DESCRIPTIONS

1. 1st row: Speedometer
2. 2nd row: Trip 1&2, RT, AVG
3. 3rd row: ODO, TT, MAX
4. RESET Button
5. MODE Button
6. Fuel Gauge
7. LED Indicators

⇐	Left-Direction Indicator/Green	🛢	Engine Oil / Red
≣▷	Main-Beam Headlamp/Blue	N	Neutral Gear /Green
⇨	Right-Direction Indicator/Green	R	Reverse Gear /Red
⚠	Hazard Warning/ Red	⇐⇨	Direction Indicator/Green

FEATURES

- Displays speedometer, Trip and odometer and bar-graphic fuel gauge at the same time.
- Built-in 4-6 LED indicators for different applications and backlight.
- Odometer and total riding timer are always kept in memory.
- Metric/Empire unit options are available.
- Adjustable wide wheel circumference setting from 1 to 3999mm.
- Fuel gauge includes +/- 100, 250 and 510 Ohm options for fuel sender input resistance, as well as "fuel gauge off" mode.
- Includes bracket, speed sensor, fitting kits and wiring harness.

SPECIFICATIONS

Function	Simbolo	Specifications
Speedometer	Km/H / MPH	2.4-399 km/h (248 MPH)
Trip meter 1&2	TRIP 1/2	0.0-999.9 KM/Miles
Odometer	ODO	0- 999999 KM, 0-624999 Miles
12/24 Hour Clock	🕐	0:00˙-11H59˙/23H59˙
Average speed	AVG	2.4-399 KM/h (248 MPH)
Riding timer	RT	0-99H59˙59˙˙
Maximum speed	MAX	2.4-399 KM/h (248 MPH)
Total Riding Time	T T	0-999999H
Bar-Fuel Gauge	🛢	+/- 100Ω, 250Ω, 500Ω options and Off

Power Input	DC 9-18V
Speed Sensor	Reed Sensor or Hall sensor with 2 wires
Wheel circumference setting	1mm-3999mm
Dimensions	96.7mm x 53.9mm x 24.5 mm

INSTALLATION

Main Unit Mounting

Main Unit Mounting
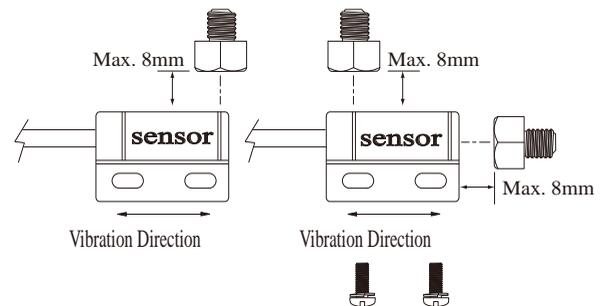
Rubber Pad

Washer

Spring Washer

Fixing Screw Nut
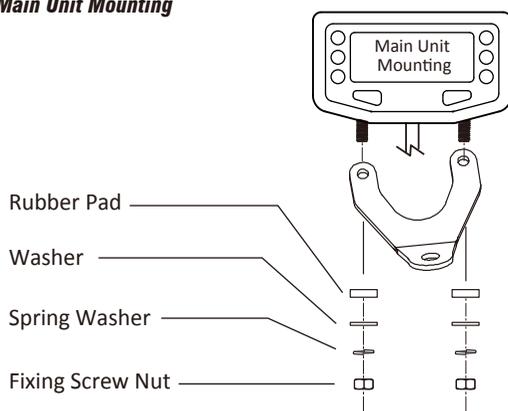
Speed Sensor:

The ACE-2XX can use either a 2 wire hall sensor or a reed sensor when it is connected to the bike's power.

Reed Speed Sensor and Magnet:

1. This sensor is universal sensor for motorcycle, find a rotating part to install magnet (for example disk, sprocket or driveshaft) and a location to install the sensor where it can be aligned to the magnet.
2. Align the center of the magnet to either of the sensor marking lines or the side of the sensor.
3. Installing the sensor parallel to the vibration direction creates optional anti-vibration effect.
4. Make sure the gap between the magnet and the sensor is within 8mm.

Max. 8mm

Max. 8mm

Max. 8mm

Vibration Direction

Vibration Direction

Sensor   Magnet

Gear Wheel

Rotation Direction

NG   Sensor Holder

Sensor

Magnet

Marke Line

OK

Hall Effective Speed Sensor and Magnet:

1. This is universal sensor for ATV front or rear wheel installation or motorcycle front wheel installation. For some fitments an accessory speed sensor holder may need to be purchased.
2. Find a rotating part to install magnet (for example disk, sprocket or driveshaft) and a location to install the sensor where it can be aligned to the magnet
3. Align the center of the magnet to center of side face of the sensor.
4. Make sure the gap between the magnet and the sensor is within 5mm.

MAX. 5mm

Magnet

Hall Sensor

Specific Hall sensors:

Cable drive adaptors for most bikes originally fitted with cable driven speedometers or milemeters are available. When using these cables it is necessary to divide the circumference setting by the number of rotations of the cable per rotation of the wheel.

Km/H or MPH: Speedometer
Displays speed meter up to 399 Km/H or 248 MPH.

MAX: Maximum Speed Meter
Displays highest speed achieved since last Reset operation.

AVG: Average Speed Meter
It calculates average speed since last RESET. The AVG is calculated from TRIP 1 be divided by RT.

TRIP 1&2: Trip Meter 1 and 2
TRIP function accumulates trip distance since last RESET as long as bike/vehicle is in motion.

ODO: Odometer
ODO accumulates total accumulated distance traveled during bike moving.

RT: Riding Timer
1. Calculates total running time since last RESET.
2. Count automatically begins with movement.

TT: Total Riding Time
1. Calculates total riding time traveled during bike moving.
2. TT data is stored in memory, and cannot be reset.

⏱ : 12/24 hour Clock
It displays 12 or 24 hour current time.

⛽ : Fuel Gauge
1. Have 7 bars to indicate how much fuel remains.
2. Built-in +/- 100, 250 and 510Ohm fuel sender resistance, the fuel bar display will disappear in when you select " off " mode.
3. Last bar flashes to indicate low fuel level automatically.

BUTTON OPERATIONS

MODE BUTTON
Press the MODE button to move between all functions in loop sequence as "→" path from one function screen to another.
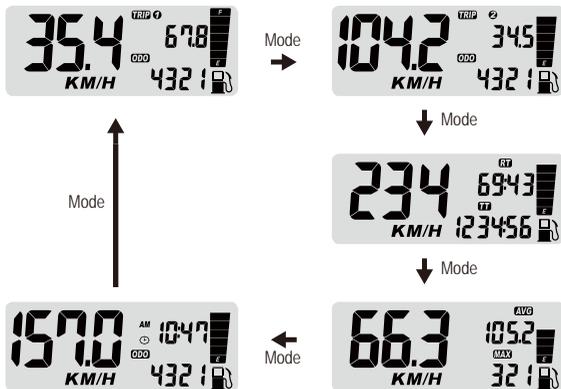
RESET BUTTON
1. Press MODE button to get to the desired screen then press RESET button for 2 seconds to reset Trip 2, MAX SPD and AVG speedometer from stored values to zero individually.
2. The data of Trip 1, AVG & RT can be reset at the same time when one of the 3 data functions is being reset.
3. ODO, clock and TT data cannot be reset.

WHEEL CIRCUMFERENCE TABLE

1. The details below have been calculated using following formula: Tire Diameter (inches) x 25.4(mm/inches) x 3.1416 = wheel circumference (in mm).
2. Identify the tire size of your ATV/Motorcycle when you need to change different tire size and key in the corresponding number shown in the following chart.

Tire Size	Circumference number (mm)	Tire Size	Circumference number (mm)	Tire Size	Circumference number (mm)
15 inch	1197	19 inch	1516	23 inch	1835
16 inch	1277	20 inch	1596	24 inch	1915
17 inch	1357	21 inch	1676	25 inch	1995
18 inch	1436	22 inch	1756	26 inch	2075

3. The computer calculates the wheel rotating length between 2 passes of the magnet; use this table to find the settings when you are using a reed sensor or an universal hall sensor with magnet to measure your speed.
4. If you are using a cable drive speed sensor then divide the number in the above table by the number of turns of the cable drive for each revolution of the wheel. For example if 1 wheel revolution equals 5 turns of speed cable then the wheel circumference has to be divided 5.
5. You can use more magnets, but the wheel circumference setting must be divided by the number of magnet you installed.

Clock,Wheel Circumference,Units and Fuel Gauge Resistance SET UP

1. Setup operations include 12/24hour clock,, wheel circumference, units and fuel meter input resistance selection. These must be set up step by step. The computer will be automatic reversion to normal mode if no button operation for 75 seconds at any setting screen.
2. Press both MODE & RESET buttons to go into setting screen. In each setting screen, press RESET button to increment the flashing digit by 1 or convert units, press MODE button to confirm the digit setting and jump to next digit or next setting screen to be set. Press MODE button for 2 seconds at any setting screen to finish the setting and go to normal mode.
3. It displays "12 or 24H and XX:XX-XX" symbols as well AM/PM in 12H mode. Operates buttons as per descriptions of item 2 to finish clock setting and jump to wheel circumference setting.
4. In "cXXXX" display, "c" means "Circumference", following 4 default digits; flashing digit is digit to be set. Follow the item 2 of button operation to finish the wheel circumference setting and jump to unit setting.
5. It displays KM/H or MPH, each press of RESET button switches units; press MODE button to confirm unit setting and jump to fuel sensor resistance setting.
6. It displays "100r" and fuel tank symbol, follow the item 2 to select 100, 250, 510ohm, oFF, -100, -250 and -510Ohm and jump to jump to clock setting or return to Normal Mode. The fuel meter bar will disappear if you select oFF mode.

0.0 `TRIP` **67.8** `KM/H` `ODO` **4321**

RESET+
MODE
2 Sec
→

24H `AM` **10:47**
Clock: Hour

↕ RESET

Mode
2 sec ↑

oFF

RESET ↑

-510r

RESET ↑

-250r

RESET ↑

-100r

RESET ↑

510r

RESET ↑

250r

RESET ↑

100r

Fuel Type: 100/250/510/-100/-250/-510/off

RESET

Mode
→

12H `AM` **10:47**

↓ Mode

12H `AM` **10:47**
Clock: Minute

↓ Mode

12H `AM` **10:47**
Clock: Second

↓ Mode

c 1277
Wheel Size: 1 ~ 3999 mm

↓ Mode

c 1377

↓ Mode

KM/H
Unit: KM/H / MPH

↕ RESET

MPH

Mode