

User's Manual



Portable Wireless Weighing Instrument



WB-PT Series

Overview

The overload and overspeed of vehicles on the road are the potential cause of road damage and the cause of traffic accidents. With the implementation of the Road Traffic Safety Law, the relevant departments of traffic and traffic police have strengthened the punishment of overrun and overload, meanwhile relevant law-enforcing departments need a high-quality equipment that can accurately detect the dynamic weight of a vehicle during their enforcement.

In order to provide a convenient and efficient law enforcement tool to the relevant law enforcement authorities and to provide a strong basis for law enforcement, according to the relevant standards of vehicle axle type and axle load quality stipulated by the Ministry of Communications and the relevant ministries, in early of 1999 our company researched and developed portable weighing instruments (axle scales) confirming to vehicle driving highway management requirements, and provides a powerful law enforcement tool for the traffic management departments to implement effective overrun and overload management.

The portable axle scale you are using is based on our actual dynamic weighing experience and customers' actual needs, and the latest WB-PT series is a new generation of digital portable weighing instrument (axle scale), aimed at improving the function of similar products in current market that can't meet the actual needs of users, it has a number of innovative features, mainly reflected in:

1. 7 inch full-color touch screen display, fully meet the use at night
2. the first supplier in India applies computer technology to the field of portable dynamic weighing instrument, that is, adopt users' well-informed mouse mode to operate, making the product more practical, and simpler to operate, greatly improving the efficiency of the operator.
3. the first supplier in India introduces the function of joint law enforcement of traffic police and road administration.
4. the first one in India launches a background software with more powerful management functions, as long as connecting our instruments with the computer installed backstage management software, you can real-time control the indicator, this lays a foundation for higher functional expansion.

Our AWS series axle scale is with high precision, stable performance, reliable use, environment friendly, energy-saving, low failure rate, simple maintenance and so on. And it can be used to weigh the motor

vehicle's axle weight and the total weight in static or dynamic situation. Applicable to overspeed inspection by highway law enforcement departments, vehicle quality inspection by traffic police, vehicle quality measurement by highway toll stations, also applies to low-value vehicle cargo measurement, such as transportation vehicle quality measurement, construction site batching and other occasions.

Remarks:

- 1. this product is not suitable for weighing the vehicle with unstable gravity! Such as sprinkler, oil tankers, bulk cement trucks and others load flow goods.
- 2, this product is for static or dynamic weighing, due to differences in gravity and road conditions, when you receive it, please pay your patience to do suitable adjustment.

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1.Chapter 1 Product Features and Technical Parameters

Main Features

- (1) with build-in load cells, accurate and stable;
- (2) data transmission: wired, wireless, wired and wireless dual-use (per the user's actual needs);
- (3) with 7-inch color touch screen display, high class and practical;
- (4) touch mode or wireless mouse mode operation, simple and quick;
- (5) a variety of work mode (traffic police, road administration, integrated) to choose;
- (6) dynamic or static optional, with stable performance, waterproof, anti-vibration, anti-corrosion;
- (7) dual-channel design, use high-precision integrated sensor with high detection accuracy and low failure rate;
- (8) with statistical analysis software, easy to record, statistics, query database can provide vehicle information, policies and regulations and technical support;

Main Technical Parameters

- 1 Name: Portable Axle Scale ;
- 2 Static Accuracy: static weighing (III), $\pm 0.1 \sim 0.3\%$ FS ;
- 3 Dynamic Accuracy: OIML international recommended level 1% -3% F.s nonlinear error: 0.5% .F.S, repeatability error: 0.3% .F.S ;
- 4 Division: 5kg 10kg 20kg etc. can be adjusted ;
- 5 Maximum Weight: 40000kg (single axle);
- 6 Minimum Weighing: 20e (e means verification interval);
- 7 Maximum safety load: safety overload capacity: 120% F.S maximum overload capacity: 150% F.s ;
- 8 Operating Temperature: -20 ~ 80 ℃ ;
- 9 Power Supply: DC 12V nickel-metal hydride battery ;
- 10 Ramps: rubber ramps ;
- 11 Limited Speed: $\leq 5\text{km/h}$ uniform speed ;
- 12 Print Content: plate,total weight,axle type,limit load value, overload

- value,time, etc. (specific content based on customer's requirements);
- 13 Software: three kinds of weighing software (road administration, traffic police, integrated mode) and can be free to switch ;
- 14 Data Output: RS232, USB two data interfaces ;
- 15 Axle Type Table Mode: axle type table is showed through internal electronic display, completely solve the inconvenience of long-time use of fuzzy and uneasy to operate sticking table form ;
- 16 The Printer: use needle-type energy-saving high-speed printer, can permanently save print content, completely solve the problem of thermal printer's high power consumption, and easily subsided content .

System Composition

- 1 weighing indicator 1 piece;
- 2 weighing load cell 2 pieces;
- 3 ramps 4 pieces;
- 4 other accessories (see packing list).

2.Chapter 2 Operating Instructions

2.1 Installation and Operation :

1.Select a flat solid road surface without sand and gravel particles to place the axle scales, keep load cells and road evenly contact, make the center line of the two weighing pads in the length direction and the direction of the vehicle running in a vertical line, adjust the distance between the two weighing pads,make it same as the weighed vehicle's axle distance.If you are using a wireless portable weighing instrument, make sure that the switch position of the two pads is at the same Direction as the weighing indicator.

Tips for checking the load cells and road evenly touch or not:The installer stand on the 4 corners of the pad where install the load cells

in twice, use different forces by two feet, and feel the shake of the load cells.

2. Take out the indicator and place in the position where you think fit. If it is a wireless portable weighing scale, keep your chosen position on the side of the switches in the pads, and the distance should not exceed 15 meters

3. Respectively open the two power supply switches on the pads (wireless portable weighing instrument should follow this step).

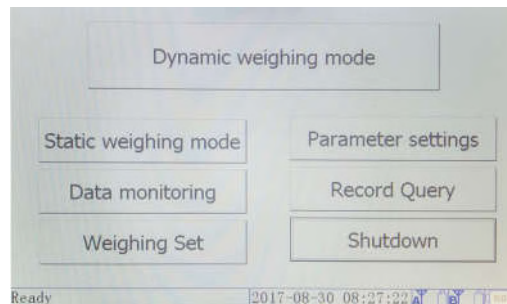
Press the switch button on the pads until the signal light on the pad starts to flash then release, now the power has been turned on, and entering the process of collecting the indicator's signal, please open the power of the indicator within 1 minute, otherwise it will be shut down if can't receive any signal from the indicator. So when you finish the use, you only need to turn off the indicator, the sensor power will be automatically shut down within 1 minute.

4. Turn on the indicator

Press the power switch on the indicator until the display shows the following self-test interface:



Now the indicator is running self-test process, please be patient, in about 10 seconds the indicator will automatically enter the "boot menu" interface, the interface is as follows:



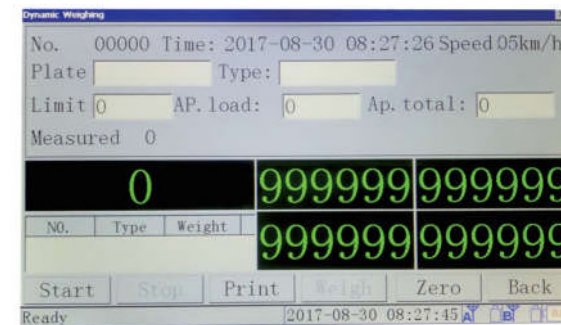
Please pay attention to the position of the signal indicating symbol "A" and "B" in the right bottom corner, as shown below:



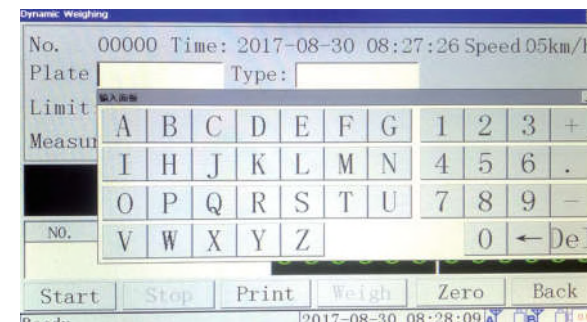
If there is a signal mark that means the system can be used (our company has fully consider the signal strength problem during design, you're assured to use it just in one signal mark).

Dynamic Weighing Mode

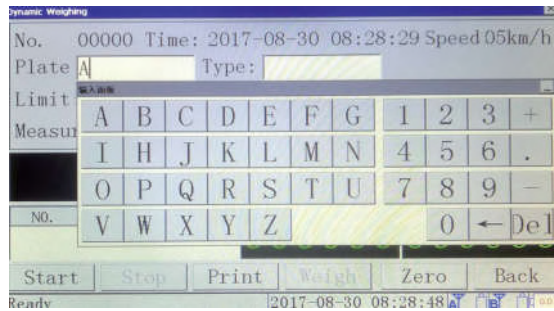
Please click "dynamic weighing mode" button on the "boot menu", now enter the vehicle information input interface waiting for you to enter the vehicle information, as shown below:



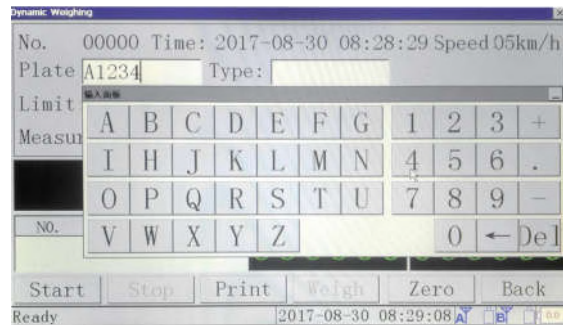
At this point please click on the blank space behind the letter "Plate", the following interface will appear, waiting for you to enter plate information, as shown below:



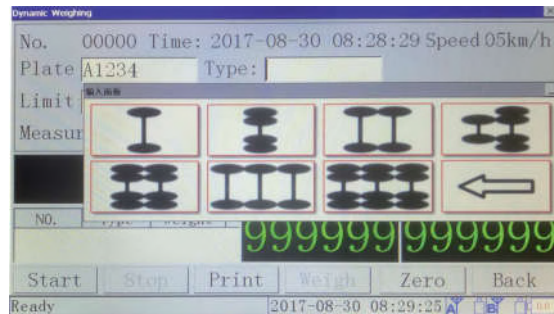
You can select the first letter of the plate from the menu. Such as: "A" When you select "A" the indicator will automatically enter the following interface, as shown below:



You can select the letter and numbers after “A”, such as “A1234”, as follows:



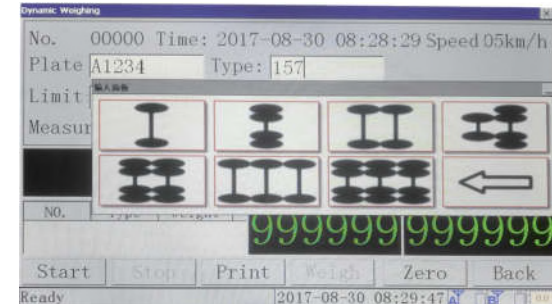
After finishing the input of the plate number, click the blank after “Type”,you will see the following interface:



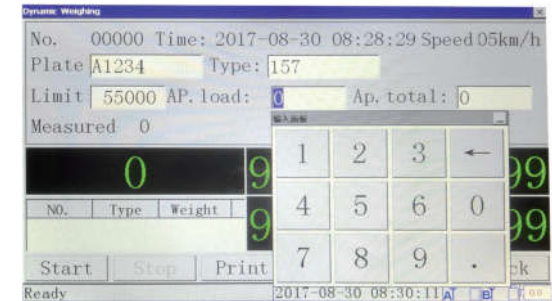
Now you can choose the vehicle axle type you need to weigh. If you are a road law enforcement department, after completing the axle type input please click "start" button to enter the dynamic weighing state. Then you can guide the vehicle driving through the scale platform

state. Then you can guide the vehicle driving through the scale platform in 5km / h uniform speed, when the last axle drives through the scale the printer automatically starts printing the weighing result (if you set it as auto print mode).

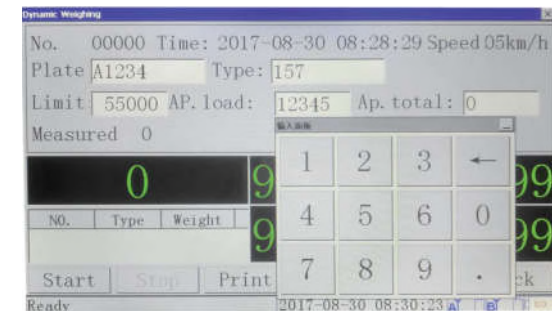
If you are the traffic police law enforcement department, before you click the "Start" button please click on the non-button area, the axle type table will automatically retreat and enter the next interface, as shown below:



Please click the blank after “AP. Load” the following interface will appear:



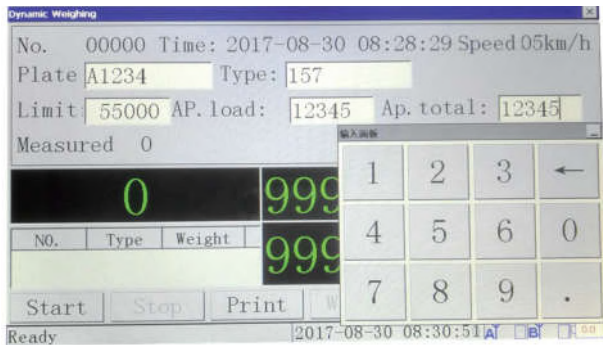
Now you can input the “AP. Load” of the vehicle, as following:



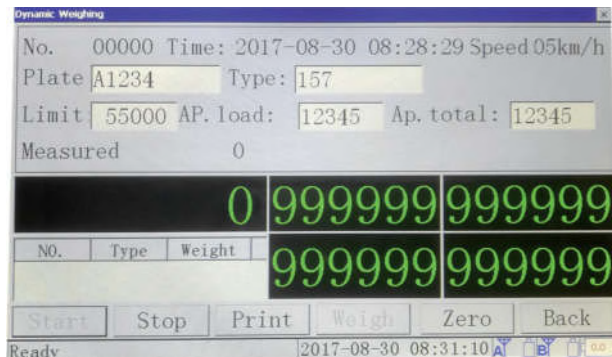
After inputting the number, please click the blank after "AP. Total", you will see the following:



At this point you can choose to enter the total quality, the input interface is completed as follows:



After entering, please click the "Start", you can enter the traffic police weighing state, the interface will show as below:



At this point you can correctly guide the vehicle through the weighing pad as description, so that you can get accurate weighing results and provide strong basis for your enforcement.

2.2 Static Weighing

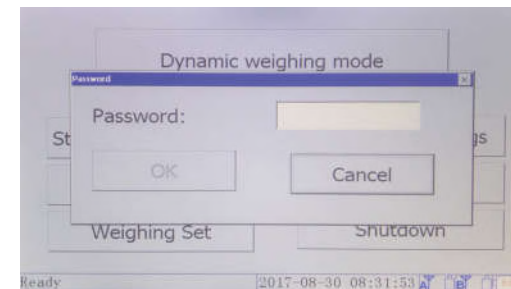
Please click the "static weighing" button on the "menu", then entering the interface, where need to enter the vehicle information.

Specific steps are same as the "dynamic weighing mode." Please refer to the dynamic weighing mode steps!

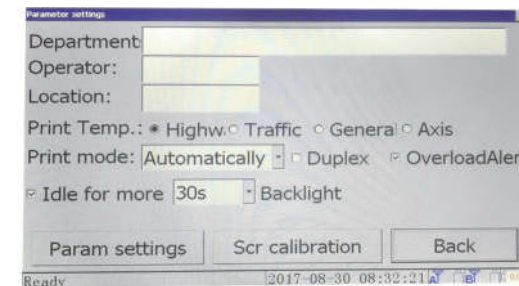
When you complete these steps, you can guide the vehicle to let each axis stop in the weighing pad for a moment, then you can get the results after weighing each axle.

2.3 Parameter setting

Click the "parameter settings" button on the "menu", then it shows the password authentication interface, waiting for you to enter the verification password, as shown below:



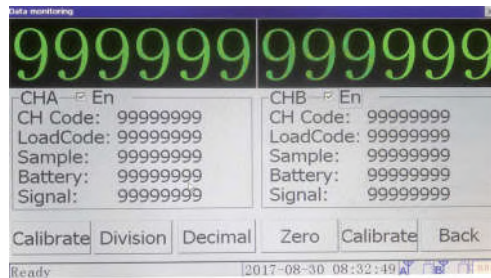
Enter the password (please ask the equipment manager for password), click "OK", it will show as below:



Then you can set the information you need, such as: "end-user" "operator" "detection location" "print template" "print mode" "background light" and other information

2.4 Data monitor

Click the "data monitoring" on the "menu", then the interface show as below:



Through this operation, you can set "calibrate", "division value" and so on functions. For details, please ask the equipment manager.

2.5 Records query

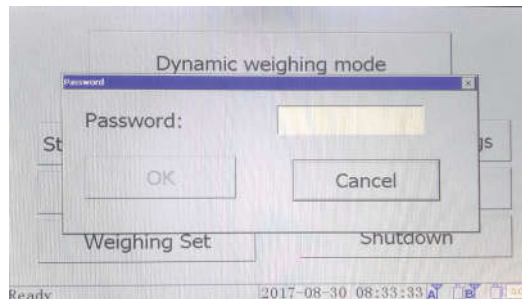
Click the "record query" on the "menu", then the interface show as below:



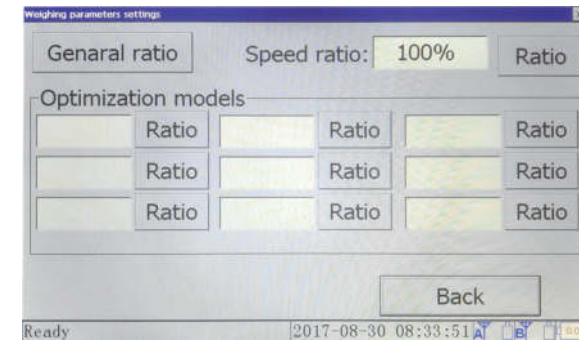
So that you can record the previously inspected vehicles in a variety of ways. The product has powerful functions, can store the vehicle information up to more than 200 million units.

2.6 Weighing setting

Click the "weighing settings" on the "menu", then the interface show as below:



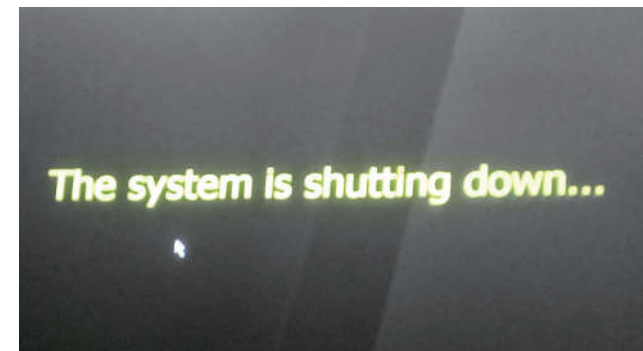
Enter the password (please ask the equipment manager for password), click "OK", it will show as below:



For details, please ask the equipment manager.

2.7 Shutdown system

Click the "close" on the "menu", then the interface show as below:



At this point the system can be closed safely, you can also press the power switch till the interface shows!

3. Chapter 2 Maintenance instruction

3.1 Power and Using

When the weighing pad or indicator power is low, you can monitor the power on the indicator at any time.

The light on the indicator charger is the charge indicator, when you start charging, it will display a color, when the electricity is full will show another color. When the indicator needs to be

charged, will be connected with one end of the charger AC power, the other end of the AC220V Plug-in.

The light on the weighing pad is the charge indicator, when you start charging, it will display a color, when the electric is full will show another color. When the indicator needs to be charged, will be connected with one end of the charger AC power, the other end of the AC220V Plug-in.

3.2 Transport and storage

This product is precision measuring equipment, weighing pad and indicator should be placed in the boxes during transport process, to avoid a strong collision.

When storing, keep the environment dry and do not press the indicator box.

3.3 Attentions

1. The touch screen is soft touch, do not beat or press with sharp objects.
2. Avoid using when sudden changes in temperature.
3. Don't use the device in high temperature, high pressure, humidity, vibration or strong electromagnetic interference environment.
4. Ensure that the vehicle uniform through the weighing pad in the speed of $\leq 5\text{km} / \text{h}$.
5. Don't brake on the sensor or the ramp, prevent the sensor and the ramp from slipping, or damage the connection plug and the signal cable due to the movement of the sensor and the ramp (suitable for wired axle scale).
6. Please try to use the horizontal ground, the vehicle must be checked in the direction of the road and the weighing pad and left between the distance of more than 20 meters to ensure that all vehicles pass through the sensor center at a constant speed. (The best condition is that the upper surface of the weighing pad and the road surface are in the same horizontal plane), so in general don't put other things under the bottom of the weighing pad in case of affecting the accuracy. If the weighing pad is used at a fixed point for a long time, and the environment is convenient, you can make the shallow foundation pit foundation placed weighing pad, the upper surface of the weighing pad is 5mm higher than the road surface.
7. Please do not open the indicator without authorization.
8. During the installation of the sensor, keep the sensor to maintain flat, to make sure that when person jams on, the

uneven ground contacting phenomenon will not occur, don't weigh the car in the condition of small stones under the sensor.

9. Don't modify the system parameters, delete the system files.

10. If the printer has a short pause or a print error message, do not click the print button many times to check whether the printer is working properly, please check whether the printer power cord is plugged in, or follow the prompts to exit the main interface, reset and then re-print.

11. When fault has or other problems can not be resolved in use, please record the details of the problem, get in touch with our company in time;

3.4 Daily maintenance

1. When not in use, turn off the power to avoid consuming instrument power.
2. Do not apply a load on the sensor for a long time.
3. Pay attention to the working status of the printer, add the print ribbon and replace the paper in time.
4. After the use of equipment, clean the sundries, moisture, dirt and others on the sensor timely.
5. Do not use corrosive solution to contact the equipment, Packing until the equipment is completely dry.
6. When handle the equipment , must be gently, is strictly prohibited to fall touch.
7. Store the equipment in dry place, prevent long-term storage of humid environment

3.5 After Sales Service

The warranty period of this product is 12 months, quality problems within the warranty period, free of charge to provide maintenance services! The maintenance out of the warranty will be charged according to the provisions of the company!

1. Printing paper, printing ribbons, signal lines, etc. are not covered within the warranty.
2. Lithium battery warranty period is six months.
3. Non-quality failures, such as damage caused by operator's or driver's damage, or other irresistible causes, are not covered by the warranty. This product indicator uses a variety of new technologies, do not advocate customer self-maintenance, when the equipment failure has, please notify your organization administrator and contact our company, access to our company's technical guidance to open the chassis detection, non-company

authorized agent Dealer self-demolition after the company will no longer warranty, if the technical staff is needed, our company will arrange in time.

4. We provide free installation and free operation training about the main function of the product, technical parameters, installation instructions, methods of operation, maintenance, simple troubleshooting and other details.

When the product changes, pls check the attached files, without prior notice! We apologize for any inconvenience!

To User:

The product has been carried out a full range of special sealing protection during the production process, when the failure has and affect the use, please do not open the indicator panel or weighing pad protective cover to repair, but not allowed to disassemble spare parts. so as not to cause you unnecessary loss! Please contact the manufacturer in time for maintenance. We will be happy to serve you, one year limited warranty, life-long maintenance. For details please check the "product warranty card."

LIMITED WARRANTY

ACZET products are warranted against defects in materials and workmanship from the date of delivery through the duration of the warranty period. During the warranty period Citizen will repair, or, at its option, replace any components(S) that proves to be defective at no charge, provided that the product is returned, freight prepaid, to ACZET.

This warranty does not apply if the product has been damaged by accident or misuse, exposed to radioactive or corrosive materials, has foreign material penetrating to the inside of the product, or as a result of service or modification by other than ACZET. In lieu of a properly returned warranty registration card, the warranty period shall begin on the date of shipment to the authorized dealer. No other express or implied warranty is given by Aczet Pvt. Ltd.

As warranty legislation differs from state to state and country to country, please contact citizen or your local ACZET dealer for further details.

ACZET service center will repair the product free of charge subject to terms & condition mentioned below.

TERMS & CONDITION

1. It covers only weighing balance purchased from authorized channel and does not covers accessories like Battery, Adaptor, RS232 cable, Pan, Pan support etc
2. It does not cover the product of which model and serial number has been altered, removed or defaced and / or is open by unauthorized person and found void sticker has been tampered.
3. This warranty is non-transferable and applicable only to first end user purchasing the product from authorized dealer.
4. For repair based on this warranty you need to hand over this product or send this product to address mentioned in warranty card in original packing, enclosing copy of this warranty card.
5. Aczet Pvt. Ltd. shall not be liable for any consequential damages.

WARRANTY REGISTRATION



ACZET PVT.LTD.
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web: www.aczet.com
Tel. No. : +91 22 4243 7700
Toll Free No. : 1800 103 8584

NAME :-

ADDRESS :-

TEL NO. :- MODEL NO. :-

SERIAL NO. :- PURCHASE DATE :-

BRANCH / DISTRIBUTOR / DEALER CONTACT DETAILS

STAMP / SIGN

WARRANTY PERIOD :-

Owners Signature / Date

SEND YOUR WARRANTY CARD DULY FILL TO ABOVE ADDRESS FOR REGISTRATION