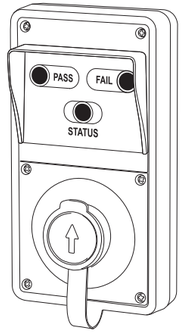
TURNSTILES.us

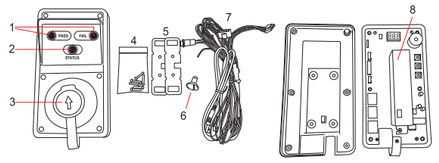
Breathalyzer Access Control Scanner



User's Manual

The Breathalyzer Access Control Scanner is a fuel cell Breath Alcohol Testing device that connects to your access control system. BRZ010 controls the entry of workers into their workplace by simple checking of alcohol concentration from subject's exhaled breath. The unit can be installed with turnstiles, doors, speed gates or any other type of access control system.

Components



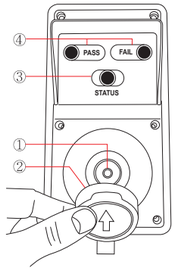
1 Test result lamp
2 Status lamp
3 Sampling hole and cover
4 Screws
5 Brackets
6 Funnel
7 Cable including power switch
8 Sensor module

Contents

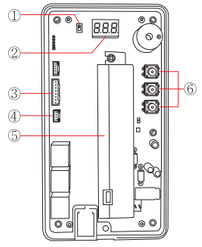
1x Breathalyzer
1x connecting cable including power switch
6x Screws for assembling
1x funnel for sampling hole
2x brackets
1x manual

[Sold separately]
USB cable & software for PC connecting

Functional Description



①Sampling hole
-This is where the user blows into the device.
②Sampling hole cover
-Preventing sensor damaged from dust or pollutants in the air
③STATUS Lamp
- Red LED flickering: Warming up
- Green LED on: Ready
- Orange LED on: Analyzing
- Red LED on: Flow error
④Test Result Lamp
- PASS: Green LED on
- FAIL: Red LED on
- Settable PASS range from 0.1‰ to 0.9‰.

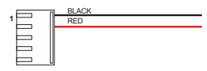


①Normal/PC mode switch
-Normal mode
-PC mode: device is controlled by PC(Optional)
②FND display
-Displaying the warning and others
③8 pin connector
-Power and signal
④4 pin connector
- USB connector for PC connecting
⑤Replaceable fuel cell sensor module
⑥Function switches
- Set the function by these switches

Description of Cables and connectors

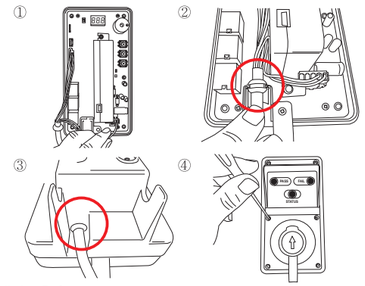
Power S/W

PIN	PIN DESCRIOTION	WIRE
1	DOOR INPUT(OPEN/CLOSE)	WHITE
2	PASS OUT(+)	BLUE
3	FAIL OUT(+)	GREEN
4	POWER ON/OFF OUT (+/-)	YELLOW
5	READY OUT	ORANGE
6	END OF TEST OUT	BROWN
7		RED
8		BLACK

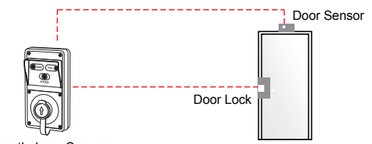


PIN	PIN DESCRIOTION	WIRE
1	POWER GND	BLACK
2	POWER +12V	RED

How to assemble



Installation Reference



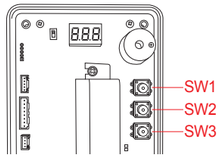
Brerathalyzer Scanner

1. Connecting cables
2. Make sure sensor module connected
3. Follow procedure of cable lying
4. Assemble front & back with screws
5. Connecting cable with auto door's sensor and lock

How to use

1.Open the sampling hole coverage from
2.Make sure green lamp on STATUS
3.Blow into the sampling hole
4.Depending on the test results, pass or fail lamp will blink
* Breath sample is not strong enough for analyzing, status lamp will be turned on the red.

How to set Buzzer, Autopower & Pass level



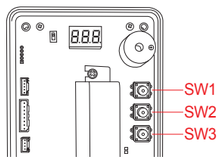
1. Turn off and open the device
2. Press "SW1" and "SW2" at the same time, hold them down four seconds and then release them. FND display will turn on and "bUZ" will be displayed.
3. If you push "SW1", you can see 3 kinds of setting mode.
1) bUZ: Set the buzzer on or off
2) FrE: Auto power ON(Fon) / OFF(Fof)
3) Lo: Set the PASS level
4. Set the Functions
1) Buzzer on/off
①Press "SW2" when you can see "bUZ" on display.
②You can see "bon". If you press "SW2" again you can see "bof".
③"bon" means buzzer on and "bof" means buzzer off.

2) Auto power on/off
①Press "SW2" when you can see "FrE" on display.
②You can see "Fon". If you press "SW2" again you can see "Fof".
③"Fon" means the device do not off automatically and "Fof" means the device turns off automatically after 15minuts later unless operating.

3) Pass level (0.01 to 0. 09%BAC)
①Press "SW2" when you can see "Lo" on display.
②You can see "LO.2". If you press "SW2" again you can see "LO.3", "LO.4" and etc.
③"LO.2" means the high level is 0.02%BAC.
④This level can be set from 0.01(LO.1)~0.09(LO.9)%BAC.
⑤0.01~0.09%BAC (= 0.10~0.90g/L= 0.05~0.45mg/L)

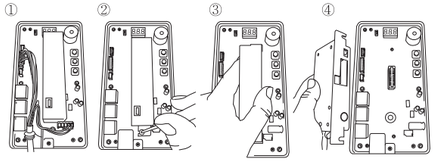
5. If you push "SW1" and "SW2" at same time, the setting is done.

How to check the number of test



Turn off the device then press the "SW1" for a moment. The number on display means how many tested with the device.
e.g.) 000=less 10 test, 001= above 10 test, 010= above 100 test, 100= above 1000 test, 999= above 9990 test

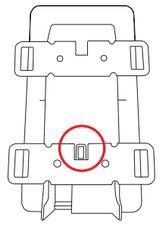
How to replace sensors



If you have trouble with the sensors, you should only replace them with those provided by the manufacturer. Before replacing the sensor, turn the power off and unscrew the above and the below, then replace the new sensor
CAUTION!
Before replacing sensor module, unplug power cable.
If you do not unplug the power, sensor module can be damaged.

How to use brackets

Please make sure the direction like below picture.



Trouble shooting

1. Can not power on EBS
① Reason: Power supply is not correctly connected
② Solution: Please check red cable voltage is 12V.
If problem is going on, please contact manufacturer or supplier in your country

2. Red on status lamp
① Reason: Breathe sampling is not strongly enough to analyze (Flow error)
② Solution: Wait until Green status lamp on then blowing correctly and steadily to sampling hole.

3. 3 lamps (Status, Pass and Fail lamp) keep blinking
① Reason: White cable is connecting with door sensor and door keeps opened (door closing is not working)
② Solution: Checking the door sensor and door opened or not

4. Analyzing and showing result is very slow or NO sampling:
① Reason: Sensor module needs re-calibration or replacing. In case of no sampling, flow sensor that inner sensor module is damaged.
② Solution: Please contact manufacturer or supplier.

Specifications

Indication of B.A.C.	Test result indicated by LED display PASS : Indicate Green Lamp FAIL : Indicate Red Lamp (Level of PASS can be adjustable)
Accuracy	±10% at 0.500 g/L
Sensor	Replaceable fuel cell type alcohol sensor
Mouthpiece	No need to use
Power supply	DC12V 1.5A
Warm up time	3 seconds ~ 4 minutes
Response time	Within 3 seconds at 0.000 g/L
	Within 10 seconds at 1.000 g/L
Calibration interval	Recommended 6 months
Ambient conditions	Storage: 0 to 50℃ / Operation: 5 to 40℃
Dimension	206(height) × 108(width) × 37(thickness) mm
Weights	674g

Warranty

The manufacturer warrants the product to be free from defects in workmanship or material (excluding calibration) under normal use for six (6) months from the date of purchase.
The manufacturer's obligation under this warranty is limited to replacing, adjusting or repairing the unit if returned along with proof of purchase. This warranty is void if the unit has been tampered with or vandalized.