Jun, 29, 2016
ALPHA Corporation
HOUSING HARDWARE DIVISION

TEST REPORT

DIGITAL LOCK WS200　Endurance Test for Unlocking/Locking by Card

NOTE

1．Test sample　Part no. 9QA17-07000
Part name WS200
Quantity n=1

2．Test method
1）Date　Dec. 2 to 13, 2013
2）Testing Machine　・Jig to press start button　・Jig to hold card
・Stabilized power supply・Thermostatic bath
3）Method　Use ISO15693-typed Card.
・Install lock case and WS200 body on test stand.
＜1cycle for locking/unlocking ＞
（1）　Press start button. ⇒Card reading mode starts.
（2）　Hold card over the screen and get authentification.
⇒ It is electrically locked.
（3）　Press start button. ⇒ Card reading mode starts.
（4）　Hold card over the screen and get authentification.
⇒ It is electrically unlocked.
・Perform the above locking/unlocking cycle for designated times (200,000 cycles in total) under the following conditions.
① 160,000cylcles at normal temperature（15℃～25℃）
② 20,000cycles at high temperature（80℃）
③ 20,000cycles at low temperature（-30℃）
4）Judgment criterion　(1)It can be locked/unlocked within the communication range, 15mm for card and 5mm for tag after the test.
(2)It can be locked/unlocked by 10-key keypad operation after the test.
(3)The locking/unlocking torque by mechanical key should be 20N・cm or under after the test.
(4)It can operate 160,000cycles at normal temperature, 20,000cycles at high temperature, and 20,000cycles at low temperature.

3．Test results.

PASSED