

**Technology for Safety,  
Technology for the Future.**

# BGR

**Boarding Gate Reader : FC3608B-NS**

For the purpose of keeping the flight on schedule, BGR is requested to accept large volume of passengers in limited time. Accordingly high standard of reliability and minimum MTBF is required on BGR.

The Nippon Signal Co., Ltd. who has been in this industry for more than 20 years has developed a new model named FC3608B-NS. This new model is a compilation of our advanced technology which we have obtained in the field.

## **Feature**

### **High Durability**

MTBF 30,000 hours will save precious time during boarding process.

### **High Reliability**

JAM rate of outstanding 1/10,000 has been realized from its superior design.

### **Ergonomic Design**

Two display with 20 letters x 4 lines each will indicate messages clearly to both passenger and operator.

### **Easy to Maintain**

MTTR 0.5 hours has been realized by simply exchanging the unit which needs to be replaced.



FC3608B-NS



The Nippon Signal BGR is a new generation Gate Reader which accepts not only the existing ATB coupons but also 2DB coupons by simply shading the Barcode coupons to the scanner. Its highest durability and processing speed will help all the airlines on their boarding process and fulfill their need and expectation.

## Boarding Gate Reader : FC3608B-NS

### High Durability

MTBF (Mean Time Between Failure) of outstanding 30,000 hours will support airlines not to stop the passengers while boarding and maximize their precious time. Also it enables to save cost, time and effort for repairing the machine.

### High Reliability

By carrying the coupons pressed from both sides (towards up and down) between two transfer belts, BGR will accept certain level of bad conditioned ATB coupons including torn, bent, curled and worn. As a result, BGR performs outstanding low rate of creating JAM (JAM rate 1/10,000) and its transporting technology has been highly reputed more than 20 years in the BGR field.

### Options

#### IC R/W

Read and Write data from IC cards.  
..... for more details, please contact us.

### Ergonomic Design

#### Indication:

The two LED located at the top side of BGR will notify whether the passenger is the appropriate person to board the flight by turning on the Green/Red LED and by making a beep-sound in case invalid coupon etc. is inserted.

#### Display:

Two displays are equipped. One located at the top side of the machine is for the operator. The other at the front side is for the passenger. Both displays show 20 letters x 4 lines maximum.

### Easy to Maintain

FC3608B-NS is composed by several major units which can be easily removed from its body whenever necessary.

0.5 hours of MTTR (Mean Time To Repair) will enable airlines not to stop their operation critically by easily exchanging those units.

| Item  | Specification   |
|---|---|
| Compliance                                  | ATB IATA resolutions 722c, 722d, 722e<br>FCC : CLASS A, IEC60950, UL60950, RoHS   |
| Dimension                                   | (W)230 ± 3 x (D)600 ± 5 x (H)615 ± 5 [mm]   |
| Weight                                      | 28kg or less  |
| Power Supply                                | Input voltage : 95-130V / 190-240V<br>Frequency : 50/60Hz ± 1Hz   |
| Power Consumption                           | During standby : 100VA or less<br>During operation : 300W or less   |
| Caloric value                               | 1470kJ/H or less (during operation)   |
| Noise                                       | Approx. 75dB (A range)  |
| Grounding                                   | At least D-Type grounding   |
| Insulation resistance                       | DC500V, 10M ohm or more between commercial AC circuit and housing   |
| Withstand voltage                           | AC1,000V, 60Hz, 1minute between commercial AC circuit and housing   |
| Leakage current                             | 3.5mA or less   |
| Surge current                               | 40A or less   |
| Guarantee time at spontaneous power failure | 10ms  |
| External interface                          | RS-232C   |
| Baud rate                                   | 19,200-115,200 bps  |
| Environmental Conditions                    | Operating temperature : 5-45 degrees centigrade<br>Operating humidity : 10%RH-80%RH (no condensation)<br>Non-operating temperature : -20-50 degrees centigrade<br>Non-operating humidity : 5%RH-85%RH (no condensation) |
| MTBF  | 30,000H   |
| MTR   | 0.5H  |

\* Specifications are subject to be changed without prior notice