**SUPREMA SECURE MULTI-OUTPUT MODULE - OM-120**

**TECHNICAL SPECIFICATIONS**

2023-06-29

# PART 1 - GENERAL

The intent of this document is to specify the minimum criteria for the design, supply, installation, and commissioning of the OM-120.

* 1. SUMMARY

1. A multi-output module, capable of connected to Biometric/RFID devices to control access to zones or floors.
   1. REFERENCE
2. Standards
3. FCC - Code of Federal Regulations, Part 15, Class A
4. Conformity for Europe (CE) - R&TTE Directive 1999/5/EC
5. UK Conformity Assessed (UKCA)
6. Korea Certification (KC)
7. Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) - (EC No. 1907/2006)
8. The Waste Electrical and Electronic Equipment (WEEE) - Directive 2012/19/EU
   1. SUBMITTALS
   2. QUALIFICATIONS
9. Manufacturer shall be ISO 9001 certified with a minimum of five years’ experience in producing access control equipment.
10. Installers shall be trained by the Manufacturer to install, configure and commission the access control system.
    1. WARRANTY
11. Manufacturer shall provide a limited ( ) month warranty for the product to be free of defect in material and workmanship.

END OF SECTION

# PART 2 - PRODUCTS

1. EQUIPMENT
2. Manufacturer   
   Suprema Inc.   
   17F Parkview Office Tower, 248, Jeongjail-ro, Seongnam-si, Gyeonggi-do, 13554, Republic of Korea  
   Tel: 82-31-783-4502, Fax: 82-31-783-4503, <https://www.supremainc.com>  
   <https://support.supremainc.com>
3. Model(s) name: OM-120
4. Alternates: NONE
5. DESCRIPTION
6. The multi-output module, capable of configuring and controlling zones or floors with BioStar 2.
7. Support 12 relay outputs per module.
8. FEATURES
9. Control up to 192 floors per elevator with BioStar 2 when connected as daisy chains via RS-485.
10. Capable of setting the floor access privilege in BioStar 2 when connected Biometric/RFID devices.
11. Switchable on-board RS-485 termination.
12. Interlock with Anti-passback zones and Fire Alarm zones, manage to occur specific outputs when an alarm is triggered.
13. RS-485, AUX Input, Relay.
14. SPECIFICATIONS

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| --- | --- | --- |
| Category | Feature | Specification |
| General | CPU | Cortex M3 72 MHz |
| Memory | 128 KB Flash, 20 KB SRAM |
| LED | Multi-color   * POWER - 1 * RELAY - 12 * RS-485 TX - 1 * RS-485 RX - 1 * AUX IN - 2 * STATUS - 1 |
| Operating Temperature | -20 °C ~ 60 °C |
| Storage Temperature | -40 °C ~ 70 °C |
| Operating Humidity | 0 % ~ 95 %, non-condensing |
| Storage Humidity | 0 % ~ 95 %, non-condensing |
| Dimension (W x H x D) | 90 x 190 x 21 (mm) |
| Weight | 300 g |
| Certificates | CE, UKCA, KC, FCC, RoHS, REACH, WEEE |
| Interface | RS-485 | 1 ch |
| AUX input | 2 ch Dry Contact Input |
| Relay | 12 relays |
| Capacity | Text Log | 10 ea per port |
| Electrical | Power | * Voltage: 12 Vdc * Current: Max. 0.6 A |
| Switch Input VIH | Max. 5 V (Dry Contact) |
| Relay | 5 A @ 30 VDC Resistive load |

END OF SECTION

# PART 3 - EXECUTION

1. INSTALLER
2. Contractor personnel shall comply with all applicable state and local licensing requirements.
3. PREPARATION
4. Contractor shall avoid locating the reader/controller in a location subject to direct sunlight, dust or soot.
5. STORAGE
6. The device shall be stored in an environment where temperature is in the range of -40°C - +70°C.
7. The device shall be stored in an environment where humidity is in the range of 0% - 95%, non-condensing.
8. INSTALLATION
9. The device shall be installed in an environment where temperature is in the range of -20°C - 60°C.
10. The device shall be installed in an environment where humidity is in the range of 0% - 95%, non-condensing.
11. All wires shall be run through conduit to prevent failure caused by rodent damage.
12. Connections between card readers and a door controller shall not exceed 100 meters.
13. All peripheral devices shall be grounded.
14. EXAMINATION
15. All connections to the reader/controller shall be tested for proper levels of performance.

END OF SECTION