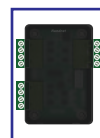


## GENERAL INSTALLATION & USER MANUAL

### OSDP/ WIEGAND READER



**NUNDLAB, INC.**

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## 1. INTRODUCTION

Thank you very much for choosing Nundnet product from Nundlab, Inc. [USA].

This manual contains information necessary for the use of device and features during operation, as well as recommendations for installation and maintenance. Installation and maintenance shall be performed by persons who have fully read this manual.

### 1.1 Purpose

Nundnet NUOSDP10MCK is IP65 rated with touch keyboard access control reader with wiegand & OSDP compatible port. The unit is compatible with the MIFARE® DESFire® EV1, MIFARE® DESFire® EV2 13.56MHz and OSDP V1 & V2. The LED's are incorporated for identifying the status of the unit followed by the buzzers. The devices are tested and comply with OSDP standards.

The device may be used at an ambient temperature of -20°C to +60°C and a relative humidity of ≤ 5% to 93% at 25 degrees (without condensation).

The device can be integrated with universal or specialized readers, fingerprint or barcode scanners, sensors for unauthorized passage, etc. according to the customer's technical requirements.

The device corresponds to safety requirements and the harmlessness, stated in the Directive 2014/30/EU Electromagnetic Compatibility (Appendix II, Module A). Stated set of environmental conditions - B (according to standard IEC 61000-6-1). For fulfillment of safety requirements and the harmlessness, in above-mentioned Directives, following international standards have been applied:

EN 61000-6-1:2007,  
IEC 61000-6-1:2016;  
EN 61000-6-3:2007/A1:2011/AC:2012,  
IEC 61000-6-3:2011.

### 1.2 Target groups

The operating instructions are intended to be used by the installers & the users of the access controls & related applications.

### 1.3 Technical progress

Manufacturer reserves the right to change specifications for product development from time to time without prior notice.

### 1.4 Warranty

All Nundnet products are warranted to be free from defects in material and workmanship and will be repaired or replaced at no charge to Buyer, provided return or rejection of product is made within a reasonable period but no longer than two (2) years for calibration and non-calibration defects, from date of delivery.

## 2. GENERAL SAFETY NOTICE

These warnings are designed to ensure safety during operation of the device to prevent violation of safety features by improper installation or operation. These warnings are aimed at drawing attention of the customer to safety issues.

### 2.1 Important

Safety measures and requirements specified in this manual must be observed:

- The device must be stored at safe location if not in use.
- The device should be connected to the power source with parameters specified by the manufacturer.
- Inspection, adjustment and repair should be performed only after device is re-energized.

After purchasing of the device, it should be unpacked and its integrity should be checked. In case of doubt in integrity of the turnstile, it should not be used and the customer should refer to the supplier or the manufacturer.

Packing accessories (wooden pallet, nails, clips, polyethylene bags, cardboard etc.) are the potential sources of hazard and must be removed prior to proper use of the equipment.

As electric shock protection device, the turnstile is related to 01 protection class according to GOST (State Standard) 12.2.007.0-75 and is not intended for operation in explosive and fire hazardous areas by the "Rules for design of electrical installations".

Using of the device for unintended purpose, improper installation, no observance of conditions of transportation, storage, installation and operation, specified by this operation ,manual, may result in damage to people, animals or property for which the manufacturer is not responsible.

### 2.2 General symbols used in this manual



#### Note

Cross documentation, design variation, assistance from expert



#### Warning

Maintenance, service and repair only by trained person.



#### Warning

Imminent danger to life, danger or personal injuries, hazard of injuries, health and accident hazards, hazard of the substantial property damage



#### Caution

Danger of property damage, possible minor injury risk

### 2.3 Environmental and health risks



#### Warning

In case of non-intended or inappropriate use, or in case of use by uninstructed persons, there is danger to the user or for third parties, and danger of damage to installations, buildings or vehicles.

### 3. TECHNICAL SPECIFICATIONS

Communication protocol	OSDP ( V1/ V2) Multiple wiegand (26, 34, 66)	
Communication range	OSDP/ RS485 Wiegand	1200M/ 1.2KM 100M
Power supply	9 ~ 24VDC, 200mA(max)	
Indicators	LED, tricolor (Red, Green, Blue)	
IP rating	IP65	
Temperature	Operating Storage	-20° C ~ 55° C, -20° C ~ 85° C
Humidity	Relative 90%	
Dimensions	95H x 86L x 21mm	
Certifications	CE, RoHS	

### 4. NAME PLATE

According to the European machinery directive, the following must be well visible and permanently fixed to the power operated machines.

- Supplier or manufacturer
- Year of production
- Serial number
- Name of product

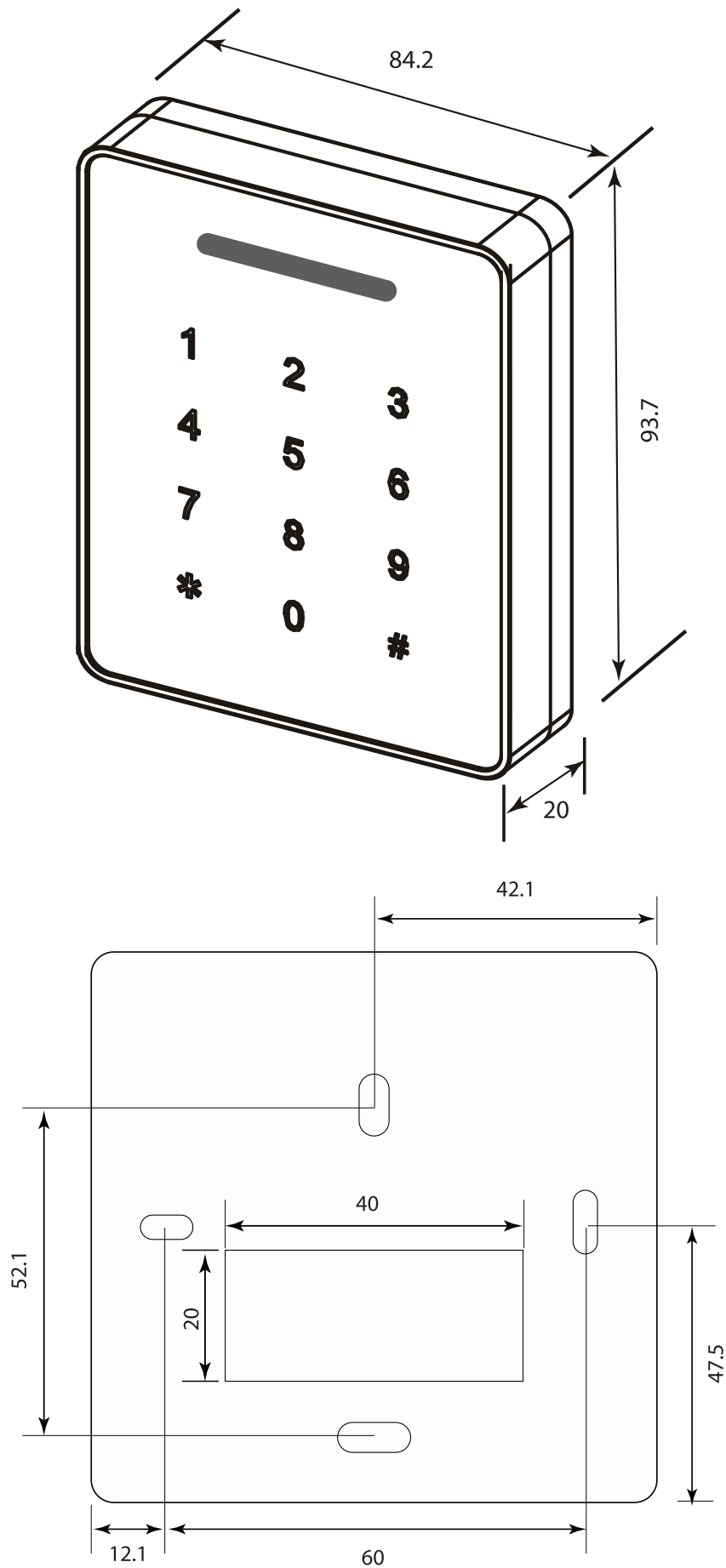


**Warning**  
Do not remove or damage the name plate.

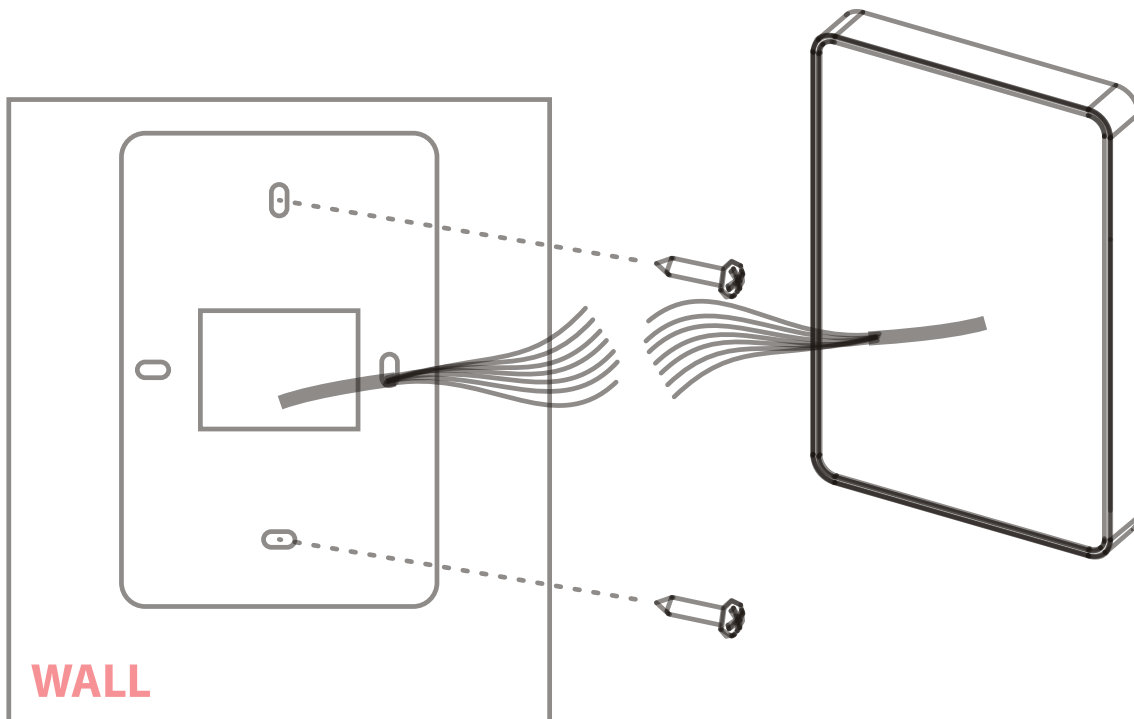


Switching from wiegand to OSDP or OSDP to wiegand can be done one time only and reverse switching is not possible at all.

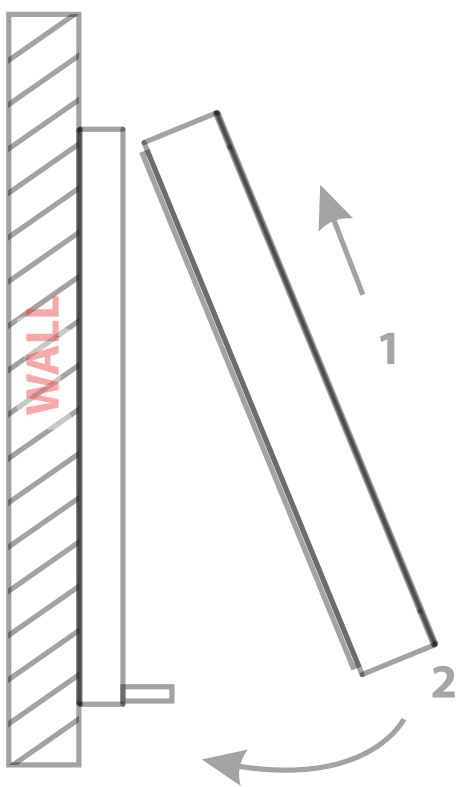
5. DRAWINGS



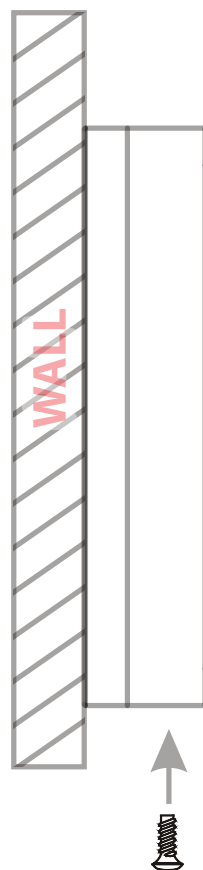
## 6. INSTALLATION



STEP 1 : Install back case on the wall & connect cable



STEP 2 : Install reader. First clip the top side, then press the bottom



STEP 2 : Fasten the screw

## 6. CABLE INSTRUCTIONS

#	COLOR	FUNCTION	DESCRIPTION
1	RED	VIN + (Power + : Positive)	DC 9-24V input
2	BLACK	GND (Power - : Negative)	
3	WHITE	DATA 1	Wiegand DATA 1 output
4	GREEN	DATA 0	Wiegand DATA 0 Output
5	BLUE	Green LED control	Grounding to work
6	YELLOW	Red LED + Buzzer control	
7	ORANGE	RS485-	OSDP V1/ V2 Communication
8	BROWN	RS485+	



### Warning

This equipment must only be mounted by professionals. The manufacturer shall not be held responsible for failure to comply with the instructions in this manual. Risk of electrocution, burns or explosion.

The device must only be installed and serviced by qualified personnel.

Prior to any work on or in the device, isolate the voltage inputs.

Always use an appropriate voltage detection device to confirm the absence of voltage.

Put all mechanisms, door and covers back in place before energising the device..

Always supply the device with the indicated rated voltage. Failure to take these precautions could cause serious injuries, risk of damaging the device

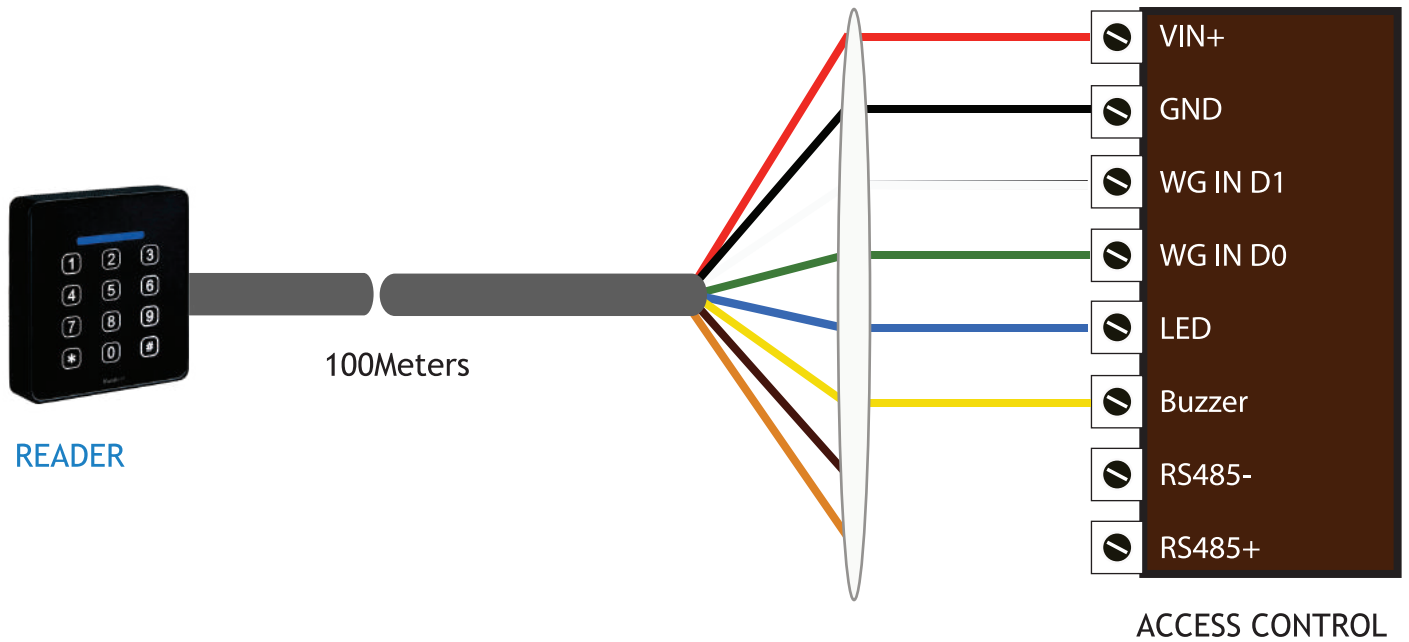
Check the following:

The voltage to the voltage-input terminals must be feed according to the values indicated in the specification section.



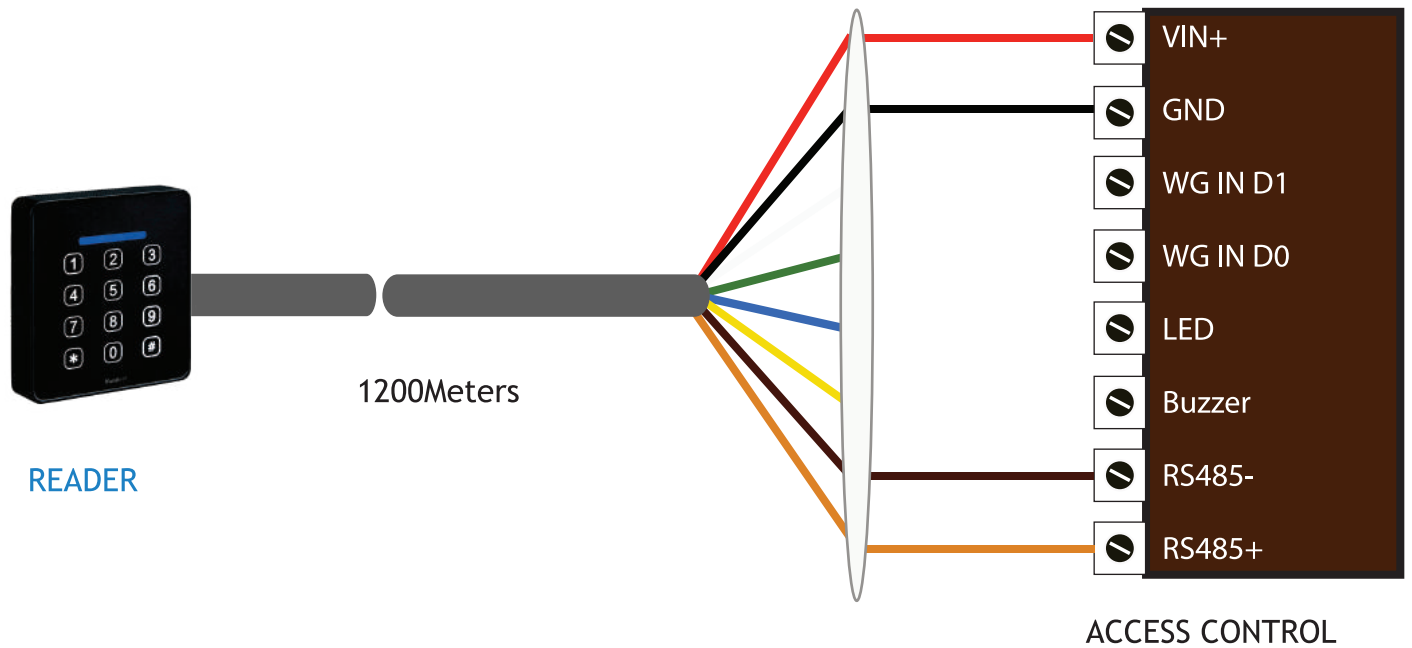
## 7. CONNECTION DIAGRAM

### 7.1 Wiegand communication



#	DEVICE	CABLE	ACCESS CONTROL
1	Red	VIN+	VIN+
2	Black	GND	GND
3	White	DATA 1	WG in D1
4	Green	DATA 0	WG in D0
5	Blue	Green LED control	LED
6	Yellow	Red LED + Buzzer control	Buzzer
7			RS 485-
8			RS485+

## 7.2 OSDP Communication



#	DEVICE	CABLE	ACCESS CONTROL
1	Red	VIN+	VIN+
2	Black	GND	GND
3	White		WG in D1
4	Green		WG in D0
5	Blue		LED
6	Yellow		Buzzer
7	Oranage	RS 485-	RS 485-
8	Brown	RS 485+	RS485+



### Caution

Manufacturer shall not be liable for damage caused by improper installation and rejects any claims if the installation is not carried out in accordance with the instructions given in this operation manual.

8. DOCUMENT REVISION HISTORY

Revision	Date	Author	Description of modification	
1.0	17.04.2021	Nundlab, inc.	Document issued	

## 10. LEGALS

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