

KODOS RD-1030/RD-1030 UL reader

Manual

Basic Item Information and Technical Data

KODOS RD-1030 (RD-1030 UL) **reader** (hereinafter referred to as reader) is used to receive, process, and transmit codes of the contactless code carriers of the PHILIPS MIFARE standard to the KODOS series control devices (e.g. KODOS ES-202, KODOS AD-10 etc.) communication line, and some other devices KODOS A-20, KODOS MI-50 and devices operating according to WIEGAND-26 protocol.

The reader is used as a component of the access control system (ACS) and the fire and burglar alarm system (FBA).

Table 1 – Performance Data

Power supply voltage, V	9.5 ... 15.0
Consumption current at 12 V power supply voltage, mA , maximum	200
Code carrier type	PHILIPS MIFARE (or compatible)
Maximum reading distance *, mm , minimum	50
Communication line length between the reader and the control device, m , maximum	50
Total length of the synchronization line between all the readers synchronized, m , maximum	10
Number of readers per synchronization line, pcs , maximum	4
Operating environment: KODOS RD-1030 ambient temperature , °C KODOS RD-1030 UL ambient temperature , °C relative humidity at 25 °C, %, maximum	+5...+55 -50...+65 80
Overall dimensions, mm	117x78x20
Weight, g , maximum	80
* – Distance between the reader and the code carrier (depends on configuration of the code carrier antenna)	

Standard Equipment

1	KODOS RD-1030 Reader	- 1 pc
2	Self-tapping Screw 3.5x25	- 4 pcs
3	Plastic Nailing Plug	- 4 pcs
4	Manual	- 1 copy
5	Package	- 1 pc

Notes on Operation

1 The address unit is mounted, installed, and maintain in accordance with the following documents:

"KODOS A-20 Central Panel-Based Fire and Burglar Alarm System. Installation Guide";

"KODOS PRO Controller-Based Access Control System. Installation Guide";

"KODOS ES Series Controllers-Based Access Control System. Installation Guide";

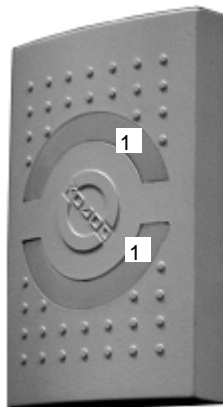
"KODOS RC Series Controllers-Based Access Control System. Installation Guide".

2 Built-in audio indicator and LEDs (**Figure 1**) are designed to indicate condition of the reader and response to putting the code carrier near the device.

3 The version is selected automatically by the reader processor by presence or absence of a jumper between the reader terminals 2 and 3 (**Figure 2**).

4 The warranty is void if the seal is broken.

5 Reader terminals marking and assigning are produced in the tables 2 and 3.



1 – LEDs

Figure 1 – Reader (front)

Table 2 – Reader’s terminals position marking and their correspondence to the KODOS series control devices’ terminals (jumper between the reader terminals 2 and 3 are presence)

reader terminal position designation	Assignment	Control device terminals marking			
		«KODOS ES-202»	«KODOS A-20»	«KODOS MI-50»	«KODOS AD-10»
1	Data signal	«D1» («D2»)	«D1» («D2»)	«DATA1» («DATA2»)	«D1» («D2»)
4	control signal	«Clk1» («Clk2»)	«C1» («C2»)	«CLK1» («CLK2»)	«CLK1» («CLK2»)
5	not used	-			
6	«- » terminal of the reader power supply	«-»	«-»	«GND»	«-»
7, 8	Synchronization	-			
9	«+» terminal of the reader power supply	«+»	«+»	«+12V»	«+»

Table 3 – Reader’s terminals position marking and their assigning when operating through “WIEGAND-26” interface (jumper between the reader terminals 2 and 3 are absence)

Reader terminals position designation	Assignment
1	Data signal «1»
2	Data signal «0»
3	Switching on green LEDs
4	Switching on red LEDs
5	Switching on audible indicator
6	«-» terminal of the reader power supply
7, 8	Synchronization (when it is switched on, the terminals 7 and 8 should be interconnected with a jumper and connected to the terminals 7 and 8 of other synchronized readers)
9	«+» terminal of the reader power supply

Attention!

- When there is no synchronization, the reader’s terminals 7 and 8 should be vacant.
- Connection to a control device with “WIEGAND-26” interface is performed in accordance with its certificate.

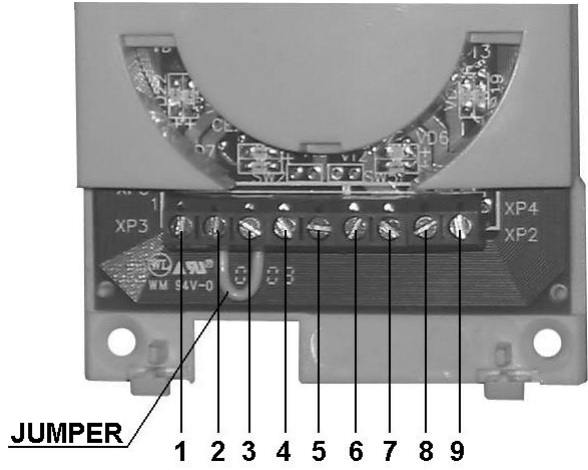


Figure 2 – Reader terminals position designation