

KODOS RD-1040, KODOS RD-1140 reader

Manual

Basic Item Information and Technical Data

KODOS RD-1040 / KODOS RD-1100 reader (hereinafter referred to as reader) is used for codes of the contactless electronic code carriers of the EM-Marin (modification RD-1100), HID (modification RD-1040) 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	160
Maximum reading distance *, mm , minimum: code carriers of the EM-Marin code carriers of the MPRO, MICROPROX code carriers of the HID	150 60 90
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: ambient temperature, °C relative humidity at 25 °C, %, maximum	+5...+35 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-1040 / KODOS RD-1100 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";

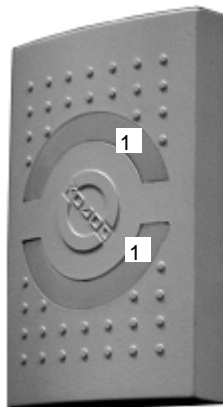
"KODOS RC Series Controllers-Based Access Control System. Installation Guide".

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 (under cover)

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.

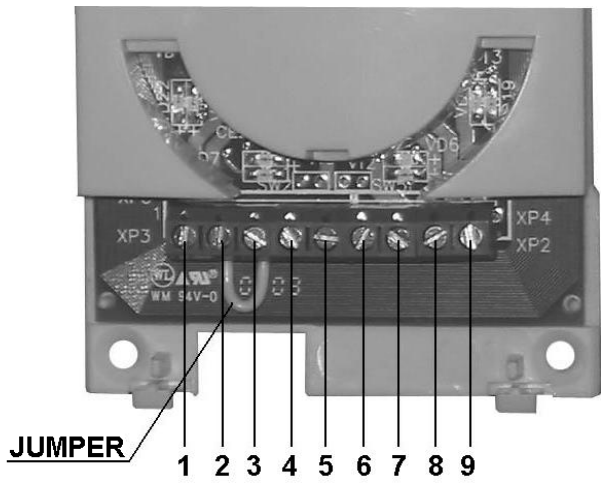


Figure 2 – Reader terminals position designation