

# TM-100

## Electronic Low Cost Key System for Machine Releases



### Product Description

The TM-100 electronic key system is a simple and cost-effective solution for a reliable and safe machine access control.

The device offers 5 tags (1 administrator and 4 user levels for differently authorized employees) which can already cover a large number of typical machine releases.

Depending on the user level of the respective key, between 1 and 5 levels are authorized for machine releases.

User level 5 = full access (administrator).



### Product Features

- Management of up to 5 tags (1 administrator and 4 user levels)
- TM-100 tags selectively pre-configured with authorization level 1 - 5
- 1 digital output (PNP, active high) for administrator access (e.g. as key switch alternative)
- 4 digital outputs (PNP, active high) for further machine functions
- LEDs for status and error messages (in preparation)
- Panel housing (built-on version optionally)
- Relay outputs optionally available on request
- 5 Bit digital outputs optionally available

### Technical Specifications

Power supply:	10 ... 28 VDC
Interface:	RS232 (for parametrization)
Data memory:	internal Flash
Housing:	panel built-in housing, material: plastic, black
Connections:	12-pin screw terminal, pluggable
Outputs:	1 + 4 digital outputs (24 V PNP, active high)
Dimensions:	W x H x D = 72 x 48 x 82.5 mm / 2.83 x 1.89 x 3.25"
Panel cutout:	W x H = 67 x 46 mm / 2.64 x 1.81"
Installation depth:	75.5 mm / 2.97" without connectors
Protection class:	front: IP65 / rear: IP30
Optional built-on housing:	aluminium; W x H x D = 107 x 56 x 110 mm / 4.21 x 2.20 x 4.33"

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### User Levels

The TM-100 has 5 key tags with fixed user levels and different access authorizations. Depending on the user level, the control of 1 to 5 outputs is authorized, which trigger the various types of machine releases. Number 5 is the administrative master tag, which allows full access to all 5 outputs (see table below).



User level 5	User level 4	User level 3	User level 2	User level 1
Administrator	User	User	User	User
Output 1	Output 1	Output 1	Output 1	Output 1
Output 2	Output 2	Output 2	Output 2	X
Output 3	Output 3	Output 3	X	X
Output 4	Output 4	X	X	X
Output 5	X	X	X	X

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