TM-300

**Electronic High-End Key System
for Machine Releases**

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Product Description

The electronic key system TM-300 offers high-end functions for reliable and secure machine access control. All stored data and protocols are fully network compatible via Modbus TCP and can consequently be processed without any problems.

The clearly structured user software also allows direct communication with connected machine controls, including visualization of the relevant machine parameters.

The device, equipped with a real-time clock, allows machine access via an unlimited number of tags (including 100 master tags). The parameterization is performed via Modbus TCP.

Product Features

- Unlimited number of tags inclusive 100 master tags (more available on request)
- RTC real-time clock, database and network connectivity via Modbus TCP
- 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
  (optionally available)
- Modbus TCP for parametrization and connection to the network
- Additional serial RS232 interface for error analysis
- LEDs for status and error messages (in preparation)
- Panel housing (built-on version optionally)

Technical Specifications

Power supply:	10 … 28 VDC
Interface:	Modbus/TCP according to the CPF15/1 standard
Data memory:	network database
Housing:	panel built-in housing, material: plastic, black
Connections:	Power supply: 3-pin screw terminal, pluggable Network connection: RJ45 socket (rear)
Outputs:	1 digital output (PNP, active high), 4 digital outputs optionally
Dimensions:	W x H x D = 72 x 48 x 82.5 mm / 2.83 x 1.89 x 3.25"
Panel cut out:	W x H = 67 x 46 mm / 2.64 x 1.81"
Installation depth:	109,5 mm / 4.31" 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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Create Users

Screenshot of the operator surface which is connected to the TM-300 unit via Modbus TCP. This mask is used to create a new user.

All relevant data as well as the respective authorization level can be stored here.

Max Mustermann 3			back
Edit record			

First name	Authorization	Language
Max	5	EN
Family name	User-Level	Units
Mustermann 3	1	inch
Company	Date of issue:	Machine type
Test LLC	20.05.2017	1
Department - No .:	Last training	Remaining time
Example department	09.07.2017	0
Project - No .:	Working hours	Master key
1234	2	No

User Overview

This mask shows an overview of the existing users including the user ID, the respective authorization levels, the working hours spent at the machine, including the date of the respective instructions.

Max Mustermann 3

User Database

ID	Name		Working hours	Training
2	Max Mustermann 3	5	125 Std.	09.07.2017
3	Max Mustermann 4	3	45231 Std.	15.04.2016
4	Max Mustermann 5	4	56 Std.	28.01.2016
5	Max Mustermann 6	5	128 Std.	03.07.2017
6	Max Mustermann 7	4	256 Std.	15.06.2015
7	Max Mustermann 8	3	512 Std.	29.07.2016
8	Max Mustermann 9	2	1024 Std.	08.01.2018

Connection to a machine control

After the TM-300 has been connected to a machine controller via network connection, the functions and visual messages of the device are also available on the user interface of the controller.

Max Mustermann 3

→ X Axis	→ Y Axis	→ Z Axis
00.0 inch	00.0 inch	00.0 inch
Settings	Settings	Settings

Training	User	Setup
179 days left	Max Mustermann 3	System OK!
Settings	Settings	Settings