

# TERMINAL REI



- **G**RAPHIC 5, 5" MONOCHROMATIC DISPLAY
- **P**OSSIBLE TO CONNECT TO ETHERNET
- **E**XTERNAL MEMORY UP TO 128 MB (30000 ACTIVITIES)
- **A**NALOG INPUT AND OUTPUT
- **M**ULTIFUNCTIONAL READING HEAD (13,56 MHz, 125 KHz)
- **M**ODERN DESIGN SOLUTION
- **P**OSSIBILITY TO CHOOSE COLOUR OF COVER
- **F**INGERPRINT READER AVAILABLE



REI ST



REI MP

# **REI** BASIC TYPES

- **REI-ST** is modern, remarkable design terminal whose cover is made of aluminium alloy and it's primarily for indoor wall installation. Graphic display and keypad with pictogram eases communication with a user. It's got built-in proximity card reader (second one as an external unit).
- **REI-MP** is industrial version of the terminal whose electronic circuits are integrated into plastic cover with high protection. The terminal is determined to be used to control one or more external reading units.

## **REI TERMINAL WITH OPTIONAL FEATURE - EI, E2 VERSIONS**

If basic configuration of REI terminal (**REI-ST, REI-MP**) does not fulfill the requirements, following versions are ready to meet them.

- **E1**  
**REI-ST/E1, REI-MP/E1** terminal has got larger memory **REI-ST/E1** can also have colour display.
- **E2**  
**REI-ST/E2, REI-MP/E2, REI-RP/E2** terminal has got larger memory, FLASH memory, more communication channels, twice more inputs/outputs, analog inputs and outputs. **REI-ST/E2** can have colour display.
- **ET**  
**REI-ST/ET, REI-MP/ET, REI-RP/ET** terminal with ETHERNET interface.
- **EU** - with extended temperature range.

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Terminal is determined to be used for:

- Access control
- Time attendance
- Catering systems
- Local payment systems (vending machines, copy machines, aqua parks, ski resorts, club loyalty systems)
- Production monitoring and management
- Product identification
- Communication with electronic security and fire detection systems

Type	REI-ST		REI-MP	
Operating temperature	0 ...+45°C			
Operating temperature - EU version	-20 ...+45°C			
Storage temperature	-30 ...+70°C			
Maximum relative humidity	80%			
Weight	1.570 Kg		1.190 Kg	
Dimensions	256 x 155 x 72 mm		230 x 175 x 90 mm	
Protection class	IP42		IP55	
Supply voltage	9 ... 32 V DC			
Supply current	12V	24V	12V	24V

### Total consumption table

Basic configuration REI-ST/MP/RP *1	0,390 A	0,195 A	0,190 A	0,100 A
<b>E2</b> configuration (REI-ST/MP/RP/E2) *2	0,530 A	0,265 A	0,330 A	0,170 A
Basic configuration REI-ST *3	0,330 A	0,160 A		
<b>E2</b> Configuration (REI-ST) *4	0,470 A	0,230 A		

\*1 Basic configuration consists of: control unit, 1 internal or external reader, graphic CCFL display (ST), depending on the type 4 (ST, MP) or 8 (RP) relay

\*2 **E2** consists of: control unit, 2 internal/external readers, graphic CCFL display (ST), depending on the type 8 (ST, MP) or 16 (RP) relay, Ethernet interface

\*3 Basic configuration consists of control unit, 1 internal reader, graphic display with LED backlight, 4 relay

\*4 **E2** configuration consists of: control unit, 1 internal + 1 external reader, graphic display with LED backlight, 8 relay, Ethernet interface

Typ snímače	REI ST	REI ST/E1	REI ST/E2	REI MP	REI MP/E1	REI MP/E2
Processor	16/32 bit HCMOS 3V					
RTC (Real Time Clock)	YES					
Basic code memory (FLASH)	256 KB					
Back-up operational memory RAM	256 KB	512 KB	512 KB	256 KB	512 KB	512 KB
Videomemory VRAM	256 KB			-		
FLASH memory - expandable up to 128 MB	-	-	16 MB	-	-	16 MB
No. of galvanically insulated inputs	4	4	8	4	4	8
No. of potential-free outputs	4	4	8	4	4	8
Keypad	YES, 24 keys			-		
LCD 5,7" graphic display,backlit	YES			-		
Colour graphic display	-	YES	YES	-		
Thermal display contrast compensation	YES			-		
Tamper contact - cover opened	YES					
Tamper contact - disassembly from the wall	YES			-		
Communication channel 1 – RS485/RS232	YES					
Communication channel 2 – RS485	YES					
Communication channel 3 – I-Link or TTL	-					YES
Communication channel 4 – I-Link or TTL	-					YES
ETHERNET interface	YES for REI-xx/ET version					
Acoustic output	YES					
Analog inputs (8 bit, 0-3V)	-	-	8	-	-	8
Analog outputs (10 bit, 0-3V)	-	-	2	-	-	2
Built-in proximity card reader	YES*1			-		
Interface for 2 external readers (RS485)	YES*1					
Interface for external reader 1	-			YES*2		
Interface for external reader 2	YES*2					

\*1: Supported interface: WIEGAND, serial synchronous, serial asynchronous

Supported proximity cards and tags:

HID, Motorola (INDALA),

EM MICROELECTRONIC-MARIN (400x,410x)

TagSys (210, 220, 240), DALLAS Semiconductor TOUCH MEMORY

\*3 Only as an external reader

\*2: Supported interface: WIEGAND, serial synchronous, serial asynchronous

Supported proximity cards and tags:

HID, Motorola (INDALA), EM MICROELECTRONIC-MARIN (400x,410x),

HITAG (I, II), COTAG, MIFARE, TagSys (210, 220, 240), Texas Instrument

(TIRIS, Tag-It), Philips (I-Code), magnetic card (stopa 1, 2, 3),

DALLAS Semiconductor TOUCH MEMORY, bar code scanner

# REI - Identifikační terminál

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## **BASIC CHARACTERISTICS**

- Multifunction control unit with high intelligency for on-line and off-line operation.
- Attractive and modern design along with alluminium alloy cover and its colour variability determine the terminal also for exclusive environment installation without any influence on interior appearance.
- Large-screen graphic display (colour as an option) and well-arranged keypad simplify communication between user and terminal.
- High power 16/32 bit processor, concentration of subsidiary systems into programable logic field and large memory subsystem (up to 512 KB RAM, up to 128 MB FLASH) remove restrictions characteristic for formely used 8 bit microprocessors.
- HCMOS 3 V technology decrease current drain, 4-layer printed circuit board and surface assembly technology increase reliability.
- Terminal has got high number of input/output signals (up to 16 relay outputs NC/NO, up to 16 galvanically isolated inputs, analog inputs and outputs...) to control any device.
- 4 galvanically isolated communications channels can be used to communicate with various interface (TTL, SPI, I2C, RS485, RS232, I-Link ) or Ethernet interface (UDP, IP).
- Terminal supports many reading devices for different frequencies (125kHz, 13.56MHz, 2.45GHz).
- Remote application software upgrade.
- Very intelligent programable field opens next future development of the terminal, e.g. additional interface (USB, CAN, IrDA) or special function (voice synthesizer, picture recognition).
- In order to cut cost it`s possible to control 2 reading devices, the terminal operates like two fully-valuable terminals.