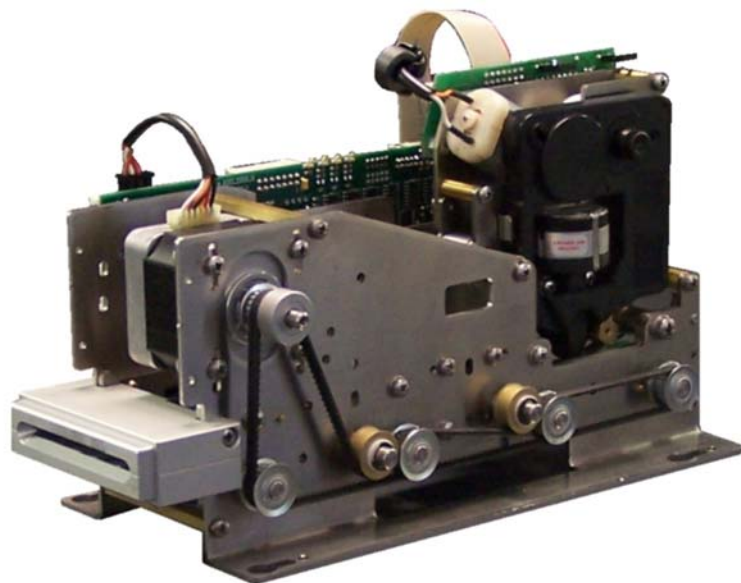




Design and manufacturing of issuing machines and encoders for cards and magnetic tickets

ENC_RISC Magnetic Reader Encoder with printer and CPU RISC



DESCRIPTION

The ENC_RISC module is an evolved version of the ENC899. Sturdiness, reliability, and simplicity remain constant.

Distinguishing features are presented in the improvement of the transport system of the titles, as in the use of a CPU_RISC board. The introduction of these two elements allows the realization of a device that reads/encodes magnetic titles of variable thickness from 0.18 mm. to 0.8 mm. with an operative speed up to 800 mm/sec.

The ENC_RISC can read and encode simultaneously up to **four** ISO standard magnetic tracks at 75 and 210 Bpi or four Transac tracks in central and/or lateral, upper and/or lower position.

It is possible to have a double magnetic head station that allows printing, encoding, and reading in one only passing.

Optional devices available on request:

- Single line longitudinal printer
- IC card treatment unit
- Contactless card treatment unit
- Barcode reader
- LCD display Interface
- I/O Optocoupled
- Shutter for front opening

MECHANICAL STRUCTURE

This module is compact and equipped with an original roller transport system that manages cards with embossing and guarantees a regular transport of cards and tickets. The transport of the tickets is guaranteed by a stepping motor and by the rubber rollers that avoid slipping during management operations.

TECHNICAL AND MECHANICAL CHARACTERISTICS OF THE BASE VERSION

Encodes and reads ISO2 magnetic standard track at 75 bpi, also in central position

Magnetic encoding LoCo

Ticket and card management with variable thickness from 0.18 up to 0.8 mm

Front opening for title introduction

LCD display interface

OPTIONS AVAILABLE FOR BASE VERSION

- Reading and encoding of tracks ISO1 and ISO3 at 210 bpi.
- Reading and encoding of one or two TRANSAC tracks
- Magnetic encoding at high/low coercivity
- Shutter with magnetic pre-head

- R/W chip card or contactless card device
- Laser reader for barcodes
- RS 232 interface for contactless cards (external or internal)

ELECTRONIC FEATURES OF BASE CPU BOARD

The module is controlled by the means of a CPU board that hosts firmware and has following features:

- CPU risc board 32 bit Fujitsu
- Ram Memory up to 512 Kb
- Flash Memory 512 KB
- Serial Memory Eeprom type 8k x 8 bytes
- N. 1 RS232 and RS422/485 optocoupled up to 115.200 bit/sec
- N. 2 RS232 up to 115.200 bit/sec
- Main CAN BUS port 2.0 - 1 Mbits/s
- Local CAN BUS port 2.0 - 1 Mbits/s
- N. 1 Input for biphas encoder

AVAILABLE OPTIONS FOR BASE CPU BOARD

- I/C Card Interface control
- Contactless Card Interface control
- Shutter Interface control
- LCD display 1x8 up to 2x40 characters Interface control
- I/O optocoupled (3 Input and 3 Output).

OPTIONAL MODULES

- | | |
|---|--|
| <ul style="list-style-type: none"> • FED899 feeder for tickets 85.6 mm long • FED899/90° vertical feeder for space saving • FED899/120 feeder for tickets 120 mm long • FED2R_2K6 double roll feeder • B/T MODULE card and ticket parking and swallowing device | <ul style="list-style-type: none"> • OBT_MECH ticket parking and mechanical invalidation unit. • METRO MODULE rear exit unit for turnstiles • F_CARD ticket parking unit |
|---|--|

TECHNICAL DATA

Dimensions (mm.)	95 (H) x 230.5 (L) x 104.4 (P) base version 125.3 (H) x 230.5 (L) x 104.4 (P) with printer
Power supply	24 Vcc – 2,5 / 3,6 A max vers. LoCo/HiCo
Operative speed	Up to 800 mm/Sec.
No. characters printable per line	40
Printing Area (ticket 54x85.6 mm)	11.5 x 81.6 mm.
Average life magnetic heads	>1.000.000 cycles
Average life printing heads	10.000.000 characters
Average life inked ribbon	1.000.000 characters
Interface	EIA RS232C, RS422/485
Protocol	Asynchronous 19.200 bps 7 bit, even, 1 stop

ADEL S.r.l. reserves the right to change technical data without advise

ADEL Srl

Legal address: Via Saffi N. 58 Operative address Via Nonantolana N. 970/1

41100 MODENA (ITALY)

Tel. (+39) 059 2550137 Fax (+39) 059 2551207

www.adel2000.it e-mail adel@adel2000.it

