

## Product Information

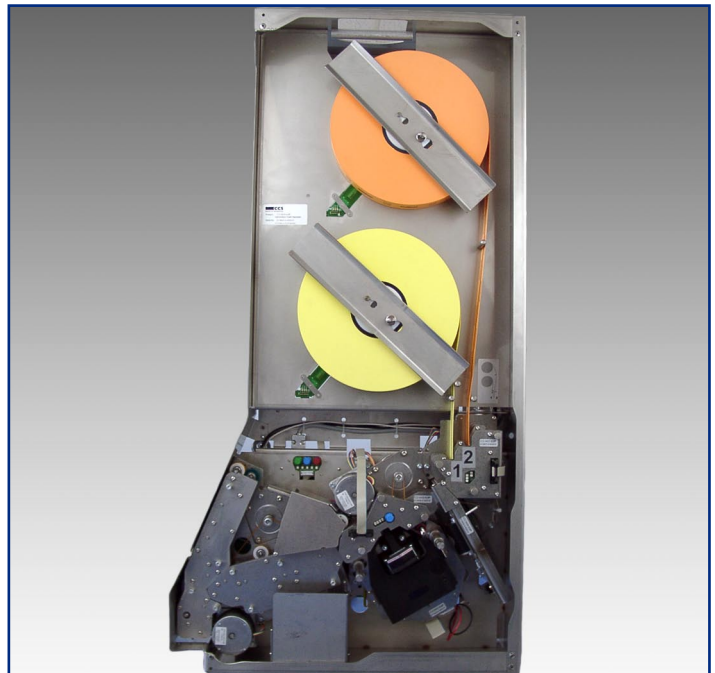
- Processing of magnetic tickets in Edmondson format with central track
- Impact printing on tickets
- 1 Bad-Ticket facility
- Integrated ticket terminator
- 2 ticket reel holders with ticket monitoring
- Capacity up to 5 000 tickets (on reels)
- LOCO
- RS-232 interface
- Flash Memory

## Información sobre el producto

- Transformación de tickets magnéticos en el formato Edmondson con pista central
- Impresión de agujas
- 1 fichero para tickets defectos
- Ticket-terminator integrado
- 2 detentores para rollos de ticket con ticket-monitoring
- Capacidad de hasta 5 000 tickets (en rollo)
- LOCO
- RS-232 interfaz
- Flash Memory

## Information sur le produit

- Traitement de titres à pistes magnétiques du type «Edmondson», piste centrale
- Impression impact sur papier
- 1 poubelle pour de ticket en panne
- Destructeur des tickets intégré
- 2 cadres supports pour tickets papier enroulé avec surveillance
- Capacité jusqu'à 5 000 tickets (bobine)
- LOCO
- Interface RS-232
- Flash Memory



## EDMONDSON TICKET DISPENSER

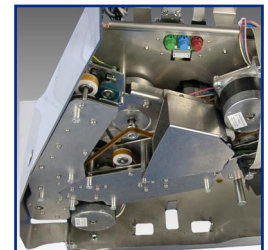
for TVM

## DISTRIBUIDOR DE TICKETS DE FORMATO EDMONDSON

para automáatas de venta (TVM)

## EMETTEUR DE TICKETS DU TYPE «EDMONDSON»

pour distribution automatique



CCS Challenge Card Systems GmbH  
Rombacher Hütte 12a  
44795 Bochum  
Germany  
Tel. +49 (0)234 94391 - 0  
Fax +49 (0)234 94391 - 99  
info@ccs-cardtec.com  
www.ccs-cardtec.com

**CCS**  
built-in reliability

## Dimensions / Weight

W 178 mm H 924 mm D 485 mm / 25.5 kg

## Power Supply

24 V DC / 300 W max.

## Tickets

Thickness: 0.25 mm  
Format: 30 x 66 mm (Edmondson)  
Material: paper

## Ticket Transport Speed

Normal transport: 450 - 850 mm/s  
With printing: 250 mm/s

## Print Head

Type: matrix (28 needles)  
Resolution: 3 dots/mm  
Max. print height: 28 mm

## Character Set

ASCII, 8 x 5 dots

## Interface

V.24/RS-232 bidirectional:  
9 600 to 115 200 (default) Baud (RXD, TXD, GND)  
Communication protocol on request

## Environment

Range of temperature: 0 - 50 °C  
Relative humidity (RH): 20 - 80 %  
non condensing

## Microprocessor System

1 x ATMEL ATmega 1280 (Main Controller)  
5 x ATMEL ATmega 16 (Stepper Motor Controller)  
1 x ATMEL ATmega 1280 (Encoder Controller)

## Memory

128 kB Flash Memory (Application)  
512 kB RAM  
32 kB EEPROM

## Coercitivity

LOCO

## Magnetic Characteristics

F2F, others on request  
ABA, IATA, THRIFT, others on request

## Ticket Detection Sensors

5 x photo sensor for feeder  
4 x photo sensor for stacker  
4 x photo sensor for printer  
6 x photo sensor for encoder  
2 x hall sensor for ticket monitoring  
2 x photo sensor for cutter

## Maintenance and Service

Every 50 000 tickets:  
check ink ribbon  
Every 3 months or every 300 000 tickets:  
check light barriers and magnetic heads  
Every 6 months or every 500 000 tickets:  
check belts and DC motors  
Every 12 months or every 6 000 000 tickets:  
check stepper motor and rollers

## Reliability

MTBF\*: > 20 000 h  
MCBF\*: > 200 000 tickets  
MTTR: < 30 minutes in workshop

*\* without wear parts*

