

## Product Information

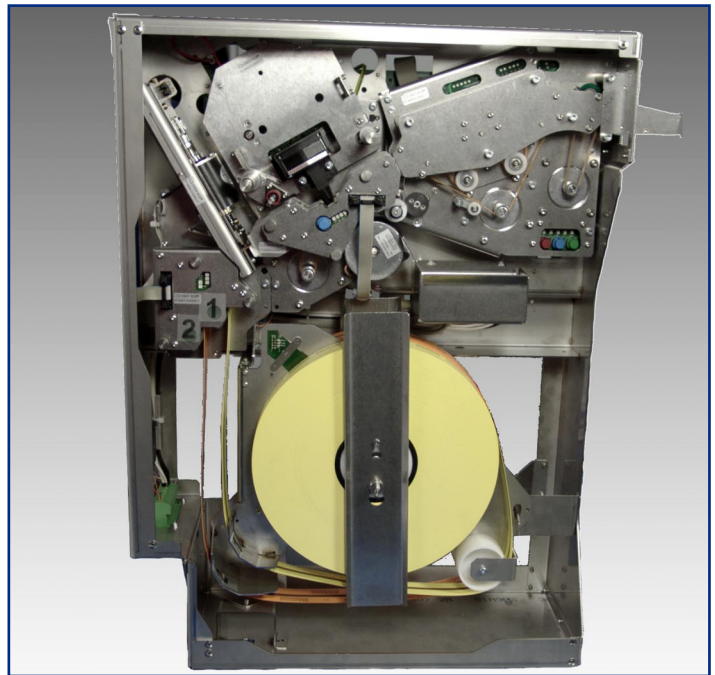
- Processing of magnetic tickets in Edmondson format with central track
- Impact printing on tickets
- Bad Ticket facility
- Integrated ticket terminator
- 2 ticket reel holders with ticket monitoring
- Capacity up to 5 000 tickets (on reels)
- LOCO
- RS-232 interface
- Flash Memory

## Produktinformation

- Verarbeitung von Magnet-Tickets im Edmondson-Format mit Mittelspur
- Nadeldruck auf Tickets
- Ablage für defekte Tickets
- Integrierter Ticket-Terminator
- Zwei Halter für Ticketrollen mit Füllstands-Überwachung
- Kapazität bis zu 5 000 Tickets (auf Rolle)
- LOCO
- RS-232 Schnittstelle
- Flash Memory

## Information sur le produit

- Traitement de titres à pistes magnétiques du type «Edmondson», piste centrale
- Impression impact sur papier
- 1 poubelle pour des tickets 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

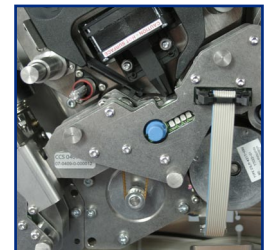
for point of sale (POS)

## EDMONDSON TICKET SPENDER

für Verkaufsstelle (POS)

## EMETTEUR DE TICKETS DU TYPE «EDMONDSON»

pour point de vente



CCS Challenge Card Systems GmbH  
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**CCS**  
built-in reliability

### Dimensions / Weight

W 175 mm H 622 mm D 512 mm / 19.6 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  
Air 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 printer  
8 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: < 0,5 h in workshop

*\* without wear parts*

