

Product Information

- Processing of magnetic data carriers
- Processing of contactless smart cards (CSC)
- Direct thermal printing on thermosensitive surfaces, graphic printing
- LOCO or HICO
- High speed communication (Ethernet, 10 Mbit/s)
- Transflective graphic display
- Over 2 Mio. transactions memory capacity
- Easy service and maintenance by modular buildup
- High reliability

INFORMACIÓN SOBRE EL PRODUCTO

- Transformación de tarjetas magnéticas
- Transformación de tarjetas chip sin contacto (CSC)
- Impresión térmica en superficies termicamente sensibles
- LOCO/HICO
- Comunicación rápida (Ethernet, 10 Mbit/s)
- Display gráfico transreflectante
- Capacidad de memoria para más que 2 mio. transacciones
- Simple manejo debido a la estructura modular
- Gran fiabilidad

Information sur le produit

- Lecteur/ Encodeur de cartes magnétiques
- Lecteur/ Encodeur de cartes intelligentes sans contact (CSC)
- Impression thermique directe sur supports thermosensitifs, impressions graphiques
- LOCO ou HICO (Basse ou Haute coèrcivité)
- Haut débit de communication (10 Mbit/s)
- Écran graphique transflectif
- Capacité de sauvegarder les données en mémoires >2 millions de transactions
- Maintenance aisée grâce à sa construction modulaire
- Haute fiabilité



VALIDATOR

for magnetic Tickets and CSC

VALIDATOR

para tickets magnéticos y CSC

VALIDATOR

pour tickets magnétiques et CSC



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CCS
built-in reliability

Dimensions / Weight

W 220 mm H 370 mm D 180 mm / 5,2 kg

Power Supply

16 - 32 V DC / 210 W max.

Magnetic Tickets

Thickness: 0.16 - 0.33 mm
Format: 54 x 85.6 mm
Material: paper, compound,
flexible PVC cards

Ticket Transport Speed

Normal transport and
magnetic processing: 350 - 500 mm/s
Printing depending
on paper quality: 50 - 100 mm/s

Print Head

Type: Bevel
Resolution: 8 dot/mm
Max. print width: 48 mm

Character Set

PICA, other character sets on request. All character sets can be printed with double height and/or double width or with enlargement (factor 2, 4 and 8).

Each character set includes the full IBM set of 20h-FFh. Semi-graphic characters are allowed.

Interface

ETHERNET TCP/IP (10 Mbit/s) or
RS-485: 19 200 Baud

Environment

Range of temperature: 0 - 50 °C (without
heating device)
-25 - 50 °C (with 60 W
heating device)
Air humidity (RH): 20 - 80 % non condensing
Vibration: 10 - 55 Hz, 2 mm ampli-
tude, along axis x, y and z
for max. 30 minutes

User Interface

LC Graphic Display
(240 x 128 Pixel, transfective, backlightened)
Green and red LEDs
Buzzer
Function keys (vandalism protected)

Multi-Processor System

1 x SC13 (with x86 Kernel)
2 x ATmega 128
3 x Single chip processor with firmware

Memory

8 MB Flash Memory / 8 MB RAM
Up to 2 GB SD-Card as silicon disk

Coercivity

LOCO (300 Oe) or HICO (2750 Oe / 3 500 Oe)

Magnetic Characteristics

Track ISO 2 or Central Track
F2F, others on request
ABA, IATA, THRIFT, others on request

Heating Device (optional)

1 x 60 W (controlled by μ C) / 1 x Fan

Maintenance and service

Every 3 months or every 300 000 tickets:
check thermal head, magnetic head(s)
and light barriers
Every 6 months or every 500 000 tickets:
check belts
Every 9 months or every 1 500 000 tickets:
check motors
Every 12 months or every 6 000 000 tickets:
check rollers

Reliability

MTBF*: > 20 000 h
MCBF*: > 200 000 tickets
MTTR: < 0.5 h in workshop
** without wear parts*