

ENC899 CD

Card Dispenser version

TECHNICAL MANUAL

PRODUCED BY

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REVISION

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1. GENERALITIES

By combining the ENC899 modules and the F_Card subunit together with the card dispenser, it is possible to realise a complete system for treating, dispensing and handling of plastic cards with a maximum thickness of 0.8 mm. The device can be used for both magnetic strip cards and chip cards.

This design allows the machine to be filled with blank cards to which value is given only upon issue of the cards.

The main module can still be used for all the reading and encoding operations and for printing out slips inserted from the front opening. The device can also read a ticket, park it in the F-Card unit and then take a card from the front opening.

This function is particularly useful for automatic or manual cashier, because it gives the possibility to have one only device for both functions: card dispensing and processing of payment operations.

If the card dispenser is not present the F_CARD module can be used like tickets parking group. Upon request it is possible to introduce a further actuator that allows to park in the horizontal channel of the module one plastic card, leaving the possibility to the module ENC899 to take a second ticket from the front. The parking of tickets and cards are in alternative between of them.

2. INSTALLATION

To couple the ENC899 and F_Card modules simply place them together and fasten them with two M3x6TC screws.

The motion of the ENC899 module is generated by an idling gear located in the rear part of the ENC899 and a coaxial gear with a rubber idle wheel located in the rear part of the Card Feeder.

The card dispensing function is controlled directly by the ENC899 module.

The withdraw of the cards from the F_Card module, parking and withdraw of ticket from parking unit are also managed by the ENC899, activating the solenoid that put the contrast roller in pressure on the feeding rubber roller.

The card dispenser and the ENC899 and F_Card modules, once assembled together, are fastened to a suitable support which ensures the perfect alignment for a correct flow of the cards.

3. CONTROLS

All the operations are managed via the ENC899 serial line (Ref. ENC899 Technical Manual).

In particular, the card dispensing function is managed with the command *stx 10 s t1 t2 t3 t4 t5 pr ej [co] etx* if the cards have to be encoded magnetically, or with the command *stx 14 s etx* if they are chip cards.

To issue chip cards from the card dispenser the parameter “s” must be set to 1.

When you use the ENC899 configuration, the controls *stx12 etx* “Input and output status request” and *stx 13 o1 o2 o3 etx* “Output activation control” are inhibited and if they are transmitted to the module, the reply is always *nak*.

4. TECHNICAL FEATURES

The general technical features are indicated in the ENC899 module Technical Manual.

The technical data of the card dispenser section are listed below.

Dispensing time	2 seconds (approximately)
Power supply	24 Vdc +/- 10% 1.5 at peak 0.1 at idle
Operations guaranteed	300.000 cards dispensed
Capacity	300 cards with a thickness of 0.8 mm
Dimensions	See enclosure

5. CONNECTIONS

5.1 ENC899 POWER SUPPLY CONNECTOR

The power is supplied via the CN1 (AMP 178496-1 with 3 poles) on the ENC899 module CPU card with the following pin layout:

Pin 1 +24V
Pin 2 GND
Pin 3 0V

The power is switched between pin 1 and pin 3 and carried to the card dispenser's S-12B-XH-A PCB connector.

5.2 I/O CONNECTOR

The CN6 CONNECTOR (JST PHD 5x2 PM 90°) is used for the interconnection between the ENC899 module CPU card and the F_Card module card.

The pin layout of the CN6 CONNECTOR (JST PHD 5x2 PM 90°) is as follows:

Pin 1	FD0	Pin 2	FD1
Pin 3	FD2	Pin 4	FD3
Pin 5	VCC	Pin 6	VCC
Pin 7	GND	Pin 8	GND
Pin 9	VDD	Pin 10	VDD

5.3 RS232 – RS485 SERIAL INT. CONNECTOR

The serial interface for the connection to the host is available on the CN2 CONNECTOR (JST PHD 5x2 PM 90°) of the ENC899 module CPU card with the following pin layout:

Pin 1	NC	Pin 2	Tx+ RS485
Pin 3	Tx RS232	Pin 4	Tx- RS485
Pin 5	Rx RS232	Pin 6	GND
Pin 7	NC	Pin 8	Rx+ RS485
Pin 9	GND	Pin 10	Rx- RS485

5.4 OPTOINSULATED I/O CONNECTOR

The CN3 CONNECTOR (ENC899 module CPU card) has three input signals and three output signals, all of which are optocoupled and can be used for connecting external devices.

When you use a CD1000 mod. Asahi Seiko card dispenser the pin layout of the CN3 CONNECTOR (JST PHD 6x2 PM 90°) is as follows:

Pin 1	Card Payout +	Pin 2	Card Payout -
Pin 3	Card Stuck Reset -	Pin 4	Card Stuck Reset +
Pin 5	n.c.	Pin 6	n.c.
Pin 7	Card Payout OK +	Pin 8	Card Payout OK -
Pin 9	Card Stuck +	Pin 10	Card Stuck -
Pin 11	Empty +	Pin 12	Empty -

5.5 CARD DISPENSER CONNECTOR

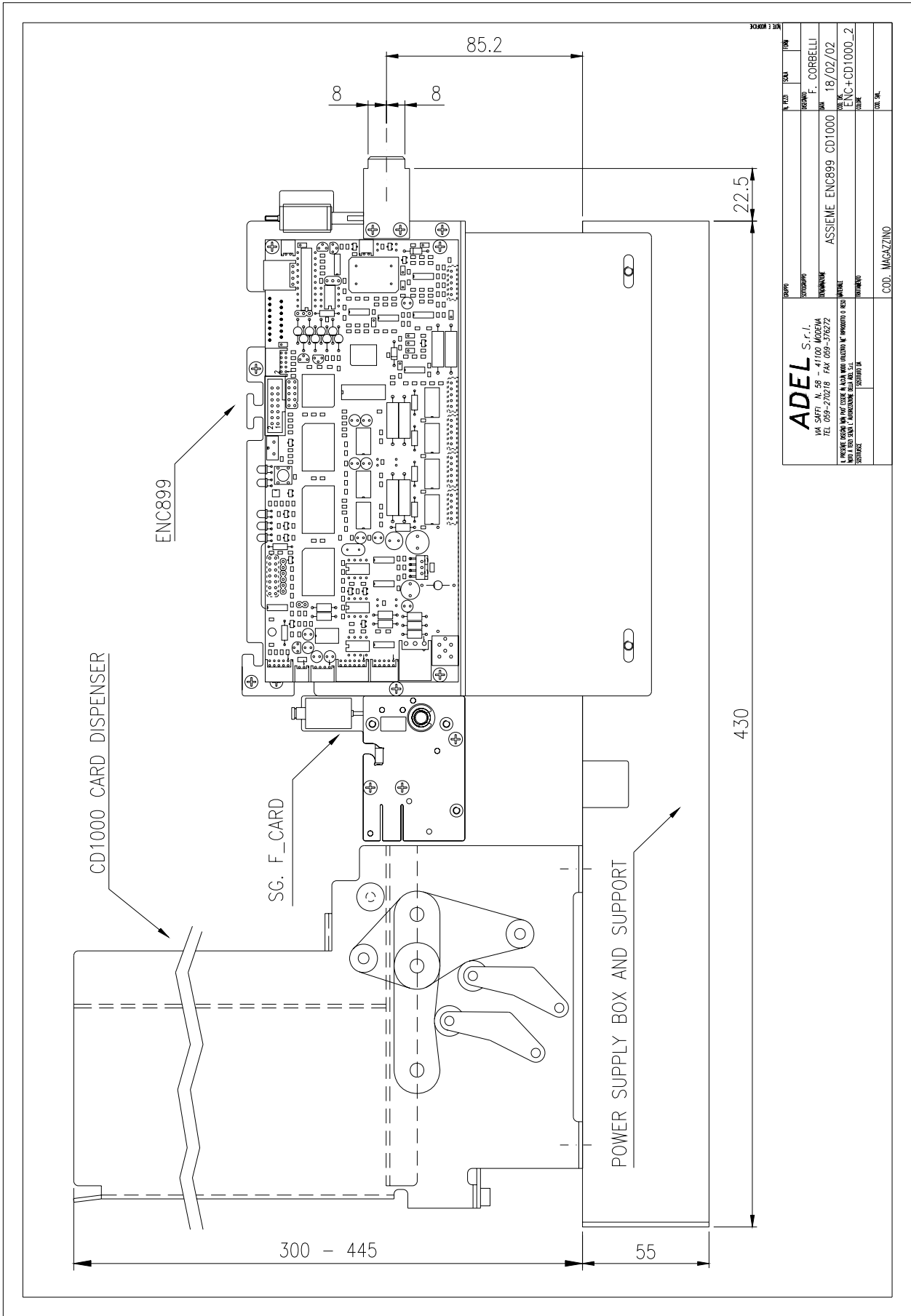
Pin 1	GND	Pin 7	Card Payout OK +
Pin 2	+24V	Pin 8	Card Payout OK -
Pin 3	Card Payout -	Pin 9	Card Stuck +
Pin 4	Card Payout +	Pin 10	Card Stuck -
Pin 5	Card Stuck Reset +	Pin 11	Empty +
Pin 6	Card Stuck Reset -	Pin 12	Empty -

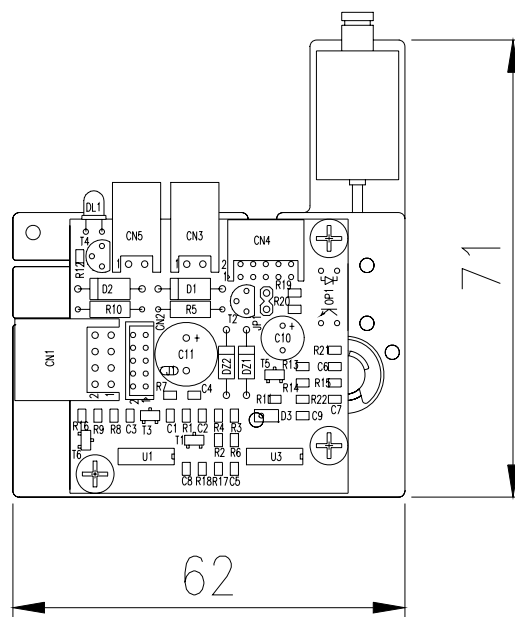
6. ENCLOSURES

Ensemble ENC899 + CD1000 with support plate

Ensemble ENC899 + CD1000 with cabinet and power supply

F_Card subunit.





NOTE E MODIFICHE

<p>ADEL S.r.l. VIA SAFFI N. 58 - 41100 MODENA TEL 059-270218 FAX 059-376272</p>	GRUPPO	ENC899 CD	N. PEZZI	SCALA	FORM
	SOTTOGRUPPO	F_CARD		1:1	A4
<p>IL PRESENTE DISEGNO NON PUO' ESSERE IN ALCUN MODO UTILIZZATO NE' RIPRODOTTO O RESO NOTO A TERZI SENZA L' AUTORIZZAZIONE DELLA ADEL S.r.l.</p>	DENOMINAZIONE	GRUPPO PRELIEVO CARTE E SOSTA	DISEGNATO	F. CORBELLI	
	MATERIALE		DATA	08/02/01	
SOSTITUISCE	SOSTITUITO DA	TRATTAMENTO	COD. DIS.	SG_FCARD	
			COLORE		
			COD. SVIL.		
		COD. MAGAZZINO			