INSTRUCTION MANUAL

SN 488-B, SN 488-D

PROGRAMMING CARD

KEPCO INC.
An ISO 9001 Company.

MODEL
SN 488-B, SN488-D
PROGRAMMING CARD

ORDER NO.	REV. NO

NOTE: This on-line version of the Technical Manual includes only installation and operating instructions. For the complete manual, please contact Kepco.

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THE POWER SUPPLIER™

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DESCRIPTION

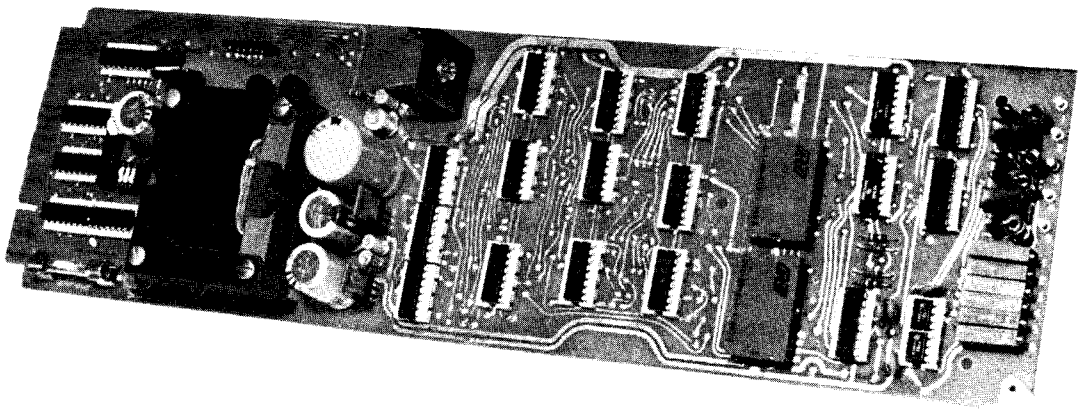
GENERAL

The Kepco Models SN 488-B and SN 488-D Programming cards are plug-in components for Kepco's IEEE 488 Digital Programming System. These Programming Cards are to be inserted into the card cages of the 488 System (Models SNR 488-4 and SNR 488-8) which hold up to four or up to eight cards respectively. Each PROGRAMMING CARD contains two electrically common, but indepenently addressable channels. Each channel performs the conversion of digital input commands to analog output signals.

This instruction manual contains a brief description, specifications, schematic diagram and parts documentation of the Kepco Model SN 488-B/D Programming Card. For System Operating Instructions and Theory of Operation, see Systems Manual for Models SNR 488-4/8.

SPECIFICATIONS

MODELS		SN 488-B	SN 488-D
INPUT CODING		BINARY	BCD
RESOLUTION		12 Bit	3 Digit
OUTPUT VOLTAGE	High Range	± 10V	
	Low Range	± 1V	
OUTPUT CURRENT		± 2 mA max.	
OUTPUT IMPEDANCE		<0.05 ohms	
LINEARITY ERROR	0 to +70°C	± 1/2 LSB	
TEMPERATURE COEFFICIENT	Full Scale	± 35 PPM/°C max.	
	Zero High Range	± 20 μV/°C max.	
	Zero Low Range	± 10 μV/°C max.	
LOGIC INPUT		TTL COMPATIBLE	
DIGITAL INPUT FORMAT		BYTE SERIAL, BIT PARALLEL	
INTERFACE FUNCTIONS IMPLEMENTED		AH1, L1	
A-C INPUT	Voltage	105-125V/210-250V	
	Frequency	50-440 Hz	
	Power	≈ 12 VA	



KEPCO MODEL SN488-B/D PROGRAMMING CARD

INSTALLATION

Loosen the locking thumb screws on the SNR 488-4/8 RACK HOUSING. Slide the Programming Card into the designated slot, using the board-mounted thumb lever. Close RACK HOUSING cover and refasten the locking screws.

CODING

Digital input coding is either binary(Model SN488-B) or BCD (Model SN488-D).

INPUT/OUTPUT

Digital input commands are applied either from a suitable computer (controller) via the IEE488 data bus, or, manually, via the Kepco Model SN488-K keyboard. The analog output from each channel serves as the input to the systems programmable power supply.

ISOLATION

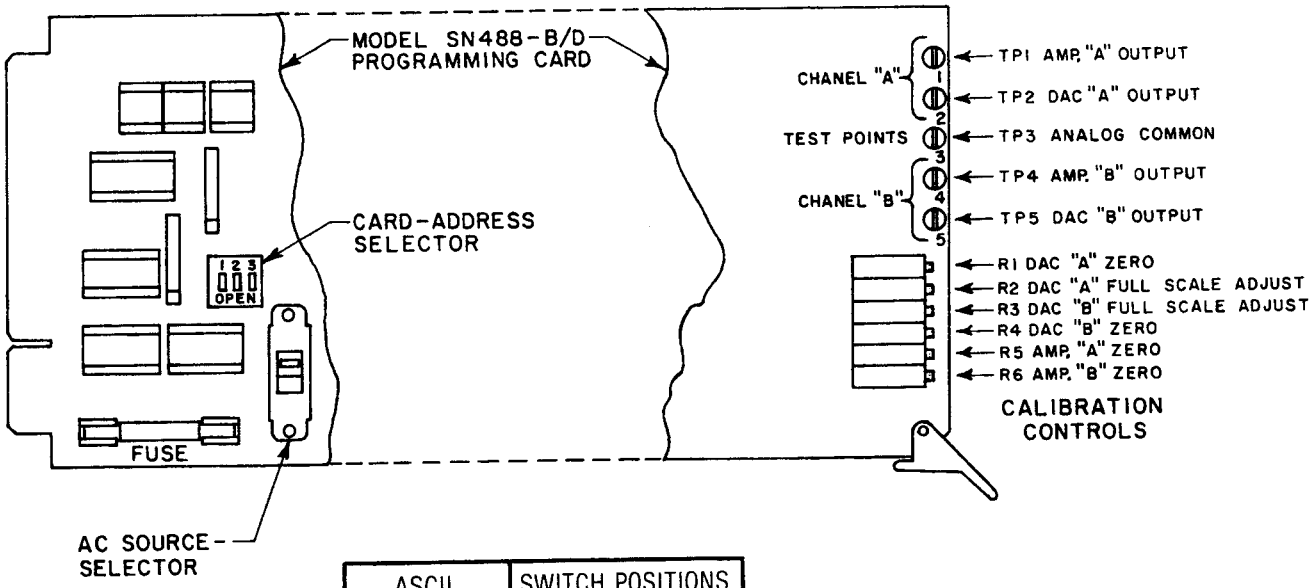
The two channels on each programming card are optically isolated (1000V d-c) between their digital input and their analog output.

CONTROL

Both channels can be digitally programmed for output magnitude, range (0-1 volt or 0-10 volt) and polarity (±).

NOTE:

Operating instructions for the SN 488-4/8 System with the Models SN 488-B/D Programming Cards are provided in the instruction manuals for the Models SNR 488-4/8 Card Cages (Systems Manual). If additional manuals for the SNR-488 system are required, please contact your nearest Kepco Sales Office.



ASCII CHARACTER	SWITCH POSITIONS S1	S2	S3
0	0	0	0
1	1	0	0
2	0	1	0
3	1	1	0
4	0	0	1
5	1	0	1
6	0	1	1
7	1	1	1

AVAILABLE CARD ADDRESSES