

### GENERAL DESCRIPTION

The general INTERFACE allows to transmit numeric or alphanumeric messages to a remote communication system like a paging or a cellular service provider thru a RS-232 or RS-485 serial port. The CP102 can also be connected to a modem for a phone line operating system.

### PROTOCOL CONVERTER

The built-in protocol converter can extract informations from a RS-232 or RS-485 serial port and convert it into suitable form, in order to be recognized by another system, also using serial communication port but using a different protocol. The flexibility and the power of the converter give the option to interconnect two different systems not previously compatible. The means used are to intercept codes ordinarily dedicated to a printer or to a remote terminal from alarm systems, fire systems, access controls, nurse call system, or any control or monitoring device and send it to a communication system like a paging/cellular company.

The protocol converter can extract up to 60 different parts from 1 to 99 characters per part. It also has a 99X16 bytes wide dictionary completely user programmable, to convert codes or numbers into alphanumeric words or to convert alphanumeric words into numeric codes for numeric capable only systems.

The CP100 can extract informations located before or after a key code/word. It can filter valid messages from too short or too long messages.

### OUTPUT

Once the input string is converted, a straight ASCII string can be generated at the output port. The CP100 has also other output mode that can be used to automatically send messages to a direct communication station using the TAP or the ESPA protocol, or through a modem to a TAP protocol system.

### CONNECTION

Interconnection of the converter to other systems is done by the RS-232 or RS-485 serial port named SERIE 2 . Port Name SERIE 1 is used to connect external transmitter and also to program the CP100.

CONNECTOR SERIE #1			CONNECTOR SERIE #2		
# PIN	TYPE	DESCRIPTION	# PIN	TYPE	DESCRIPTION
1	NO2	Auxiliary contact relay	1	Input	Programming lock out
2	Output	Serial data RS-232	2	Output	Serial data RS-232
3	COM 2	Auxiliary contact relay	3	Input	Serial data RS-232
4	Input	Transmit inhibit (active low)	4	Reserved	
5	Ground	0 V, (GND)	5	Ground	0 V, (GND)
6	Output	Signal POCSAG	6	Input	Serial data RS-485 (reversed)
7	COM1	Main relay contact	7	Input	Serial data RS-485 (non-rev)
8	NC1	Main relay contact	8	Output	Serial data RS-485 (reversed)
9	NO1	Main relay contact	9	Output	Serial data RS-485 (non-rev)

## MAIN CHARACTERISTICS (protocol converter)

- Programming performed with a terminal or any type of computer provided with a terminal emulation software.
- On-site programming or on the bench.
- Independant memory buffer for each port, allowing processing without any loss of data.
- Independant RS-232 or RS-422 (RS-485) connections for each port.
- Two (2) serial bidirectionnal ports, FULL DUPLEX.
- Non-volatile memory (EEPROM) for configuration back up.

## ENCODER CHARACTERISTICS

- 3 types of message can be generated:  
TONE ONLY, NUMERIC or ALPHANUMERIC
- 4 speeds of transmission : 512, 600, 1200 or 2400 bauds.
- Four (4) functions per address.
- A DOUBLE POLE (COMMON,NO,NC) contact and another SIMPLE POLE (COMMON, NO) contact are available for the control of a transmitter.
- The level of the output signal is adjustable with a potentiometer for a fine tuning of the carrier's deviation.
- Binary polarity of the signal software configurable.
- An input permitting to block the transmission for the sharing of the transmitter with other encoders.

## ELECTRICAL AND PHYSICAL SPECIFICATIONS

- Power supply (external power pack) : 11 to 13.5 volts d.c.
- Power consumption :  
300 mA (stand by)  
1500 mA (transmitting)
- Operating temperature : 0°C to 65°C
- Color : Black
- Weight : 17 oz (500 g)
- Dimensions : 3" high X 8" wide X 9" long  
(76 mm X 203 mm X 229 mm)
- Case : Plastic ABS
- Approval : FCC Part 15a

## SPECIFICATIONS

- Port memory buffer: Serie #2 6144 bytes  
Serie #1 128 bytes
- Chain length to be processed : 256 characters
- Output chain length : 256 characters
- Number of commands per chain : 80
- Output Baud rate : 300, 600, 1200, 2400, 4800,  
9600 and 19200
- RAM : 2K bytes
- LEDs : 2
- Conversion dictionary : 99 words
- EEPROM : 8 K bytes

## TECHNICAL SPECIFICATIONS

- Speed of transmission: 512 + 0,001%  
600 + 0,001%  
1200 + 0,001%  
2400 + 0,001%
- Output level : 0-2.5 V (adjustable)
- Inhibition voltage : < 0.6 Volt on INH input
- Main relay contact: DPST, 25 V 2 A res
- Auxiliary relay contact : SPST, 25 V 2 A res
- Encoding : code BCH 31:21:2

