



**8 Channel Configuration**

The PTS-9MX field multiplexer allows for a cost effective means to multiplex a number of incoming signals into one outgoing signal for transmission. This allows for the reduction of the number of dedicated repeater stations required to transmit data to a central location.

The unit can be ordered in a 2, 4, 6, 8, and 10 channel configurations. The standard configuration includes a passive attenuator for each channel allowing the user to easily adjust the incoming signal amplitude for each channel to attain equalization prior to the multiplexing operation. To further enhance incoming signal conditioning, a variety of optional filters or line amplifiers modules can be used on any or all channels. Each channels standard or optional signal-conditioning module utilize.

The PTS-9MX is very low power, easy to use, and easy to field repair or upgrade. The rugged and well-shielded enclosure makes it perfectly suitable for portable and rapid deployment applications in addition to permanent monitoring. The unit is conservatively designed and includes ample transient suppression. Power output jacks allow radio receivers to be directly connected to the multiplexer. The multiplexed output can be transmitted or directly connected into the PTS-3BG field telemetry station.

Other system components include lightning suppression systems (Model LPS-x), external signal band pass, high pass, or low pass filters (Model TC-70x), and line amplifier (Model TC-80x), and central site digitizing and recording systems (Model DAS-6102PC), and analysis software.

Specifications subject to change without notice. 06/03

**VLF/eentec**

625 N. Euclid Ave., Suite 404, St. Louis, MO 63108

Tel: ++314.454.9977 Fax: ++314.454.9979 E-mail: sales@eentec.com Web site: www.eentec.com



## PTS-9MX SPECIFICATIONS

### INPUT CHANNELS

Number of Input Channels:	1 through 10 ("x" indicates number of channels)
Input Level:	$\pm 5.0$ V, 10Vp-p max
Input Impedance:	100 K Ohms
Frequency Response:	300 to 6,000Hz min

### OUTPUT

Output Level:	$\pm 4.0$ V, 8Vp-p max
Output Impedance:	600 Ohm, transformer coupled
Gain:	Adjustable 0 to 5

### POWER

Operating Voltage:	11 - 14 VDC
Operating Current:	400uA quiescent, 2mA max

### USER INTERFACE

Adjustments:	Output level
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### SYSTEM SPECIFICATIONS

Dimensions:	W 4.75" x L 7.5" x H 3.25" (8 Channel)
Operating Temperature:	-30°C to +65°C
Humidity:	0-100% RH, non condensing
Signal Input:	Banana jack
Signal Output:	PT02E-8-4S
Battery Input:	Banana jack

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