

# ClisSys MPT - Multiple Input OEM Pressure Transmitter

## Overview

The MPT series of transducers are multiple input pressure transmitters that can be equipped with a 400 bar piezoelectric ceramic sensor, a fully compensated 700 kpa transducer and an LM 34 semiconductor temperature sensor. Any one of these three sensor types can be utilized independently, or in any combination of the three.

Output is provided as a string of serial data, typically 8N1, 5V inverted logic., ideally suited for direct connection with TTL circuitry.

## Power

MPT modules can be powered two ways: External power can be provided by a 5VDC supply or, if equipped with an on-board converter, by a 9VDC source, such as a standard 9V battery. Typical consumption is < 50 mA.

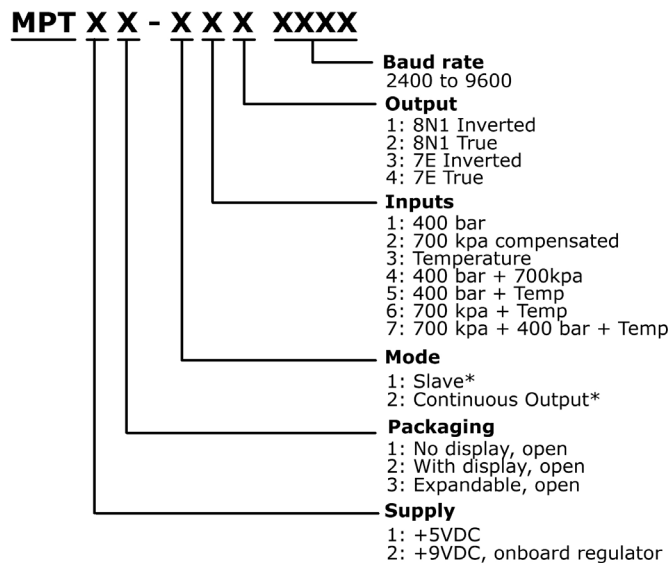
## Packaging

MPT modules are open construction conventional through-hole printed circuits with pin and pigtail terminations for input devices and a three-wire termination for serial output. Some versions include a detached or detachable 2 digit display module with additional processing and indicating capabilities.

## Customization

MPT modules are highly flexible devices that are intended for a variety of applications ranging from wearable sensing systems to industrial process equipment. The small size and weight combined with multi-input instrumentation grade signal processing make these customizable solutions for the most demanding and challenging pressure applications.

## Model Number Explanation



\*Serial output= integer bytes in the following order: High pressure psig, Low pressure psig, Temperature F°.

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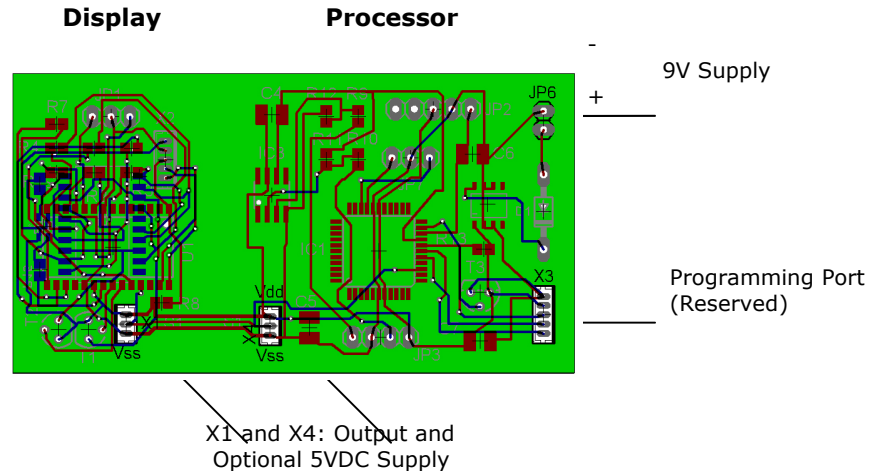
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## Wiring Connection

MPT modules are supplied as a single circuit board containing a 2 digit display section and a main processor module. The board is designed so that the two sections can be separated into 2 individual boards. This allows the display and processor boards to be stacked, or to allow remote mounting of the display. The broken white line shows where the board can be separated.



Termination	Designation	Pin	Description	Notes
9VDC Power Supply Connection	JP6	1 2	Vss, DC Common Vdd, +9V	Only used when 9V option is included.
Display Input	X1	1 2 3	Vdd, +5V from Processor board source Serial Data Input Vss, DC common	Only used when display option is included.
Processor Output	X4	1 2 3	Vdd, +5V from External Supply or On-board supply* Serial Data Output Vss, DC common	Only used when 5V option is included. Only one supply can be used. <b>DO NOT USE 5V &amp; 9V SUPPLIES TOGETHER!</b>
In Circuit Programming Port	X3	-	Consult Clic Systems for programming information. (NC – Do Not Connect)	Requires compiled source code, Programmer & ICSP adapter.

\*With 9V supply option, on-board regulator provides 5V to this point. Without 9V option, connect 5V supply to X1 or X4.

### Notes:

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