

SMART Pt-100 TRANSMITTER ——— PTS-2

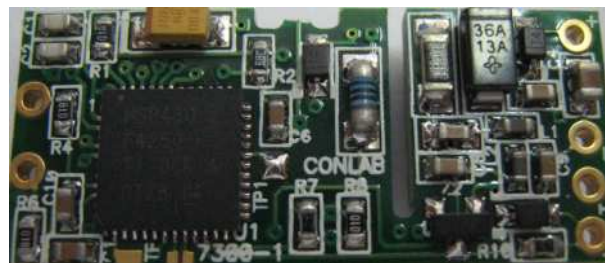
OEM Low Cost
Two-Wire Transmitter

Accuracy of $\pm 0.1\%$

Small Dimensions

PC Configurable

Temperature Linearized



The PTS-2 is a two-wire, non-isolated OEM transmitter for Pt-100.

The PTS-2 was designed for probe manufacturers providing them with a superb quality, fully tested and no calibration needed smart transmitter.

The unit converts temperature ranges between -100 to $+300$ °C into a linearized, 4-20mA, process current loop.

PTS-2 size makes it attractive for small housing integrating sensor and transmitter..

This configuration is widely used in hygienic and non-hygienic industries as pharmaceutical, dairies, breweries, water and steam industries.

PTS-2 is supplied fully calibrated and carefully checked PCB.

Two holes at one side are for the sensor connection.

The two upper opposite side holes, marked as (+) and (-) are the current loop connection, while the lower holes marked as:

(R) Receive, (T) Transmit are used for PC communication.

The PTS-2 is configured by free software package - CONCAL – downloadable from our web site.

The PC is communicating with the PTS-2 transmitter via CON-USB, modem cable for USB port.

The transmitter energy for configuration is provided by the modem avoiding the need to wire the transmitter to a power supply.

The Windows® based software was designed to make the configuration steps easy for the user in a friendly and simple interactive way.

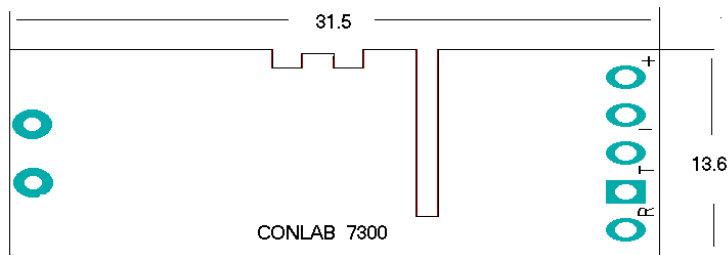
PC Operating System:
Microsoft Windows 98®, Windows XP®,
Windows 7®, Windows NT®

*Windows is a trade mark of Microsoft Inc.

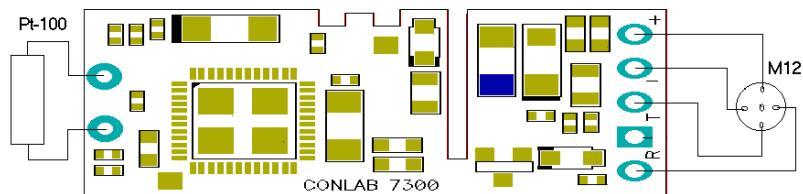
ConLAB

INPUT:	2-wire Pt-100 according to BS 1904 and DIN 43760 characteristics.	LOAD RESISTANCE:	$R_{max} (\Omega) = (V_{supply} - 8)/.02$
INPUT RANGE:	-50 to +250°C	SOFTWARE PACKAGE:	CONCAL
INPUT SPAN CHANGE:	10 to 300°C	MODEM CORD CON-USB LENGTH:	1.50m
SENSOR EXCITATION:	< 0.2 mA	CONFIGURED PARAMETERS:	Tag information, Input range, Damping factor, Burnout type, Output current mode, Sensor calibration
OUTPUT CURRENT:	4-20 mA / 20-4mA (28 mA limited)	TEMPERATURE STABILITY:	< ±0.015% of span/1°K
SUPPLY VOLTAGE:	8-36 Vdc reverse polarity protected	OPERATING TEMPERATURE:	-20 to 70°C Storage: -40 to +90°C
SUPPLY VARIATION EFFECT:	< ±0.03% of span for full change	HUMIDITY:	5 - 95% relative, non condensed
ACCURACY:	< ±0.1% of span	WEIGHT:	approx. 5 gr.

Dimensions (mm)



Connection Diagram



data subject to change without notice

ConLAB
control Laboratories Ltd.

20, Hamezuda st. Azor, P.O.Box 100. Israel 58190. Tel +972-3-556-7688 Fax +972-3-556-9540 sales@conlab.co.il