Single Chip 2-Wire Loop Powered, 4 to 20mA Current
Loop RTD Temperature Transmitter
TIDA-00247

VCC = +3.3V

LDO_IN 200k
0.47uf

TPS7A1601
(U1)

Connect to 4 - 20mA Loop

Connect RTD here

MSP430F2274
(U2)

RISC CPU 16-Bit
Incl. registers

OA1

B +

VEREF+

32.768KHz

ADC10

BRDG_OA9+

ADC_IN

BRDG_OA8+

10k

10k

10k

1k

1k

1k

VEREF-

BRDG_ON/OFF

Timer

PWM_OUT

Spy-bi-Wire Interface

AO0

OA8

VTOL_OA1+

VTOL_OA1-

L1

L2

80.6k

40.2k

20k

10k

33uf

4.7uf

http://www.ti.com/support

Public Release

Engineer: SHARAD YADAV

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Not in version control
SVN Rev: TIDA-00247
Number: Rev: E1
Public Release

http://www.ti.com

SHARAD YADAV
2014

Signal Conditioning Circuitry

Programming and Debugging

Output Amplification Circuitry

LDO/Power Circuitry

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This Assembly Note is for PCB labels only.

These assemblies are ESD sensitive, ESD precautions shall be observed.

These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.

These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.
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