DATA SHEET - Process Automation-Loop TX.

MODEL:- LPSC-xxx

LoopPowered Signal Conditionerseries 4-20mALoop Powered



The LPSC-xxxis a series of loop powered two wire transmitters, the LPSC drawenergy from the 4-20mA loopto functionand at the same time provides a proportional 4-20mA signal relative to the input.

The LPSC series accommodates inputs such as ACvoltage, AC Current from CT, millivolts dcVolts dc, milliamps dc, RTD, T/C and a SW(slide wire) inputs.

FEATURES

- Full galvanic isolation
- Both DIN and G Rail mounting
- External monitor points (40 to 200mV)
- External span and zero
- Very small footprint area 25mm wide

GENERAL SPECIFICATION

Supply Voltage1 2 to 48Vdc Loop Resistance 250 ohms

Long term drift < 0.1% of span per 10,000hrs

Isolation Level 1500V dc.

Creepage distance ≥2.5mm. (port to port) **Output Noise** 3.2µA rms. (typical). Accuracy 0.25% of span Linearity 0.25% of span Repeatability 0.25% over 10,000hrs

CMR (50/60Hz) Typically 110dB

Nominally 250mS10 to 90%step Response time

Operating Temp -25 to 75 Deg. C Storage Temp -55 to 85 Deg. C Self Opening 2.5mm2 **Terminals**

Housing Material **KRILEN**

Dimensions 79mm X 85mm X 25mm

Weight 130 grams

Load Calculation: The LPSC series work on a wide voltage range, the

maximum load can be calculated as below:

Load (ohms) = V supply -120.020

TECHNICAL DATA

T/C

Supply Voltage 12Vdc to48Vdc Supply Power Loop powered TwoPort Isolation 500V nominal Input Types available:

ACI CT secondary either 1Amp or 5Amp

ACV 0-300Vac

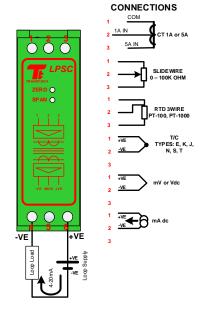
RTD 3 WirePT-10, PT-100, PT-1000 - MinSpan 30Deg C SW (slide wire) 2 & 3 Wire 0-5k Ohm, 0-10k Ohm - MinSpan 10 Ohms

E, J, K,N, S, TMin Span 8mV

VC 0-300V or 0-50mA - Min Span 5mV or 1mA

Output 4 to 20mA only

Loop Resistance1 Approx. 250ohms/loop maximum



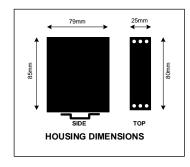
INPUTS

CONNECTIONS

CALIBRATION & SET-UP INSTRUCTIONS:-

All TransTech signal conditioners are normally factory set to calibration details supplied by the customer. If field adjustments are necessary the following steps should be taken

- 1. Apply the minimum signal to the input (0 Deg C)
- Adjust the output signal to itsminimum level of
- 4 mA by adjusting the zero potentiometer.
- 3. Apply the maximum signal to the input (maxDeg C)
- 4. Adjust the output signal to its maximum level of 20 mA by adjusting the spanpotentiometer.





1/119 Delta Street, GEEBUNG QLD 4034 PO Box 663 Virginia BC QLD 4014 P 07 3823 1922 sales@proconit.com.au www.proconit.com.au