

## PASSIVE SIGNAL AMPLIFIER lin&lout T1100RN/RS/N/S



### DESCRIPTION

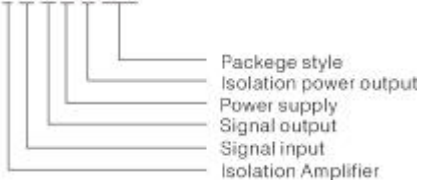
T1100 series, a standard analog amplifier, with anterior circuit 4-20mA current signal input and posterior 4-20mA current signal output, is a passive signal isolation module. The series adopt magneto design and high efficiency loop electric-larceny technology, efficiently reducing the reliance of current signal isolation on the power, realize 4-20mA standard signal isolation with high accuracy and line regulation. Besides, the modules have extremely low temperature drift (no more than 35ppm/°C under -25°C to +71°C). The isolation voltage between the input and output can up to 2.5KVDC.

### FEATURES

- Two-port isolation (Between input and output)
- High accuracy (0.1% F.S.)
- High linearity (0.1% F.S.)
- Isolation voltage(2500VDC/60S)
- Low voltage-drop(At 20mA<3V)
- Extremely low temperature(35PPM/°C)
- Industry standard(Operating Temperature
- Range:-25°C to 71°C)
- High reliability(MTBF >500,000 hours)

### MODEL SELECTION

TXXXXRN



### MORNSUN Science& Technology co.,Ltd.

Address: 2th floor 6th building, Huangzhou Industrial District, Guangzhou, China  
Tel: 86-20-38601850  
Fax:86-20-38601272  
[Http://www.mornsun-power.com](http://www.mornsun-power.com)

### PRODUCT PROGRAM

Part Number	Power Supply	Input	Output	Isolation Power Output	Channels
T1100RN/S	NONE	4-20mA	4-20mA	NONE	1
T1100N/S	NONE	4-20mA	4-20mA	NONE	1

### ELECTRICAL CHARACTERISTICS

Power Supply Data	Power Supply	NONE
	Power Dissipation	NONE
	Power Protection	NONE
Input Data	Input Signal	4 -20mA
	Input Impedance	Voltage Drop≤250mV(At input signal=20mA)
	Overload	≤300mA
	Voltage Drop	<3V(20mA)
Output Data	Output Signal	4 -20mA
	Load	≤300Ω (At output Signal=20mA)
	Load Regulation	<0.05% meas.val./100Ω

### TRANSMISSION CHARACTERISTICS

Offset	0.1%F.S.
Gain Error	0.1%F.S.
Temperature Drift	0.0035%F.S./°C(-25°C to +71 °C)

### ISOLATION CHARACTERISTICS

Galvanic Isolation	Two-port isolation (Between input and output)
Isolation Voltage	2.5KVDC (Test for 1minute and 1mA max, humidity < 70%)
Insulation Resistance	1000MΩ,500VDC (Between input and output)

### OTHER CHARACTERISTICS

Ambient temperature	Operation temperature:-25 to +71°C
	Transport and Storage temperature:-50 to +105°C
Package	DIP16/SOIC16
Weight	About 8g
The Environment in use	No dusts, gases of fiercely vibration, impulsion or gases that may erode to the components surrounded

Note:

1. All specifications measured at TA=25°C, humidity<75%, nominal input voltage and rated output load unless otherwise specified.
2. See application circuits for more details.

