

2-WIRE VOLTAGE TRANSMITTER

STU – I2



USER'S MANUAL

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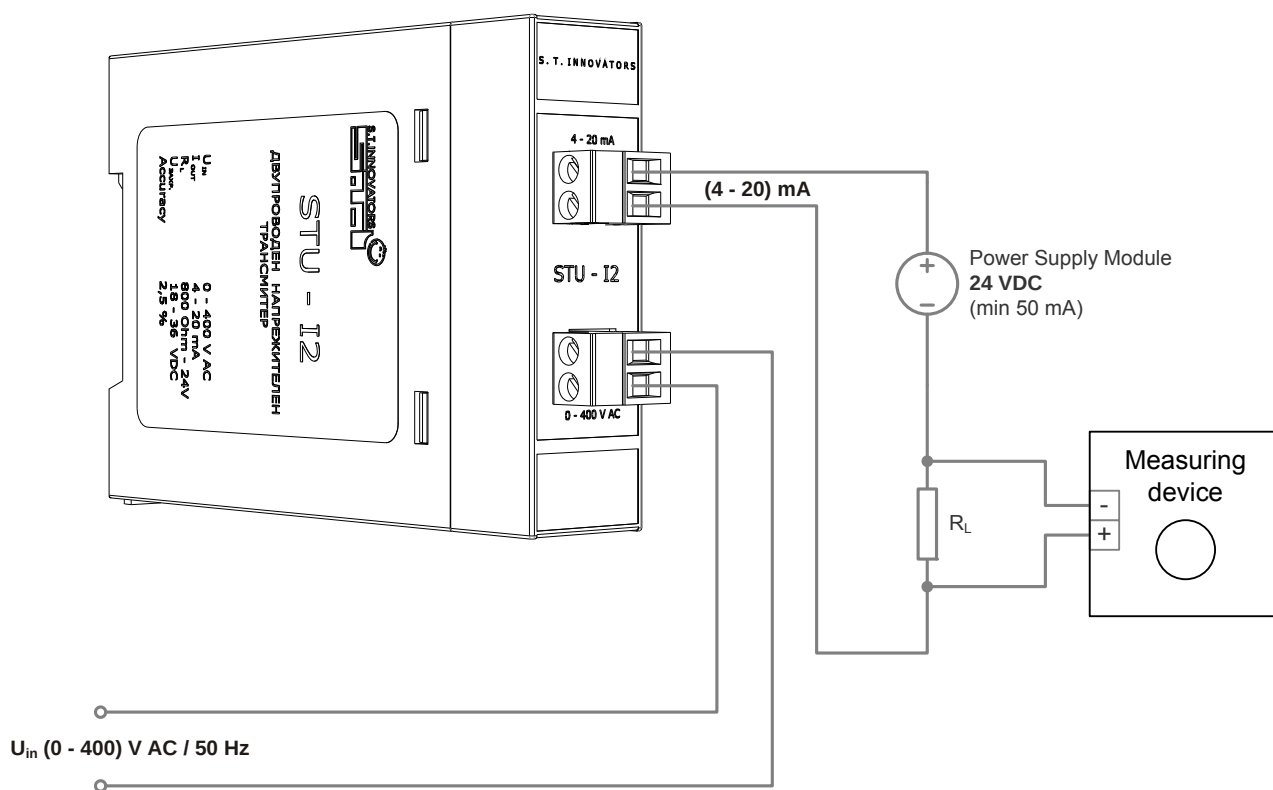
1. INTRODUCTION

The 2-wire voltage transmitter STU – I2 is designed to convert an AC signals $0 \div 400 \text{ V} / 50\text{Hz}$ into an analog current signal $4 \div 20 \text{ mA}$.

STU – I2 consist of the following main functional blocks and components:

- transformer BOURNS LM-NP-1001B, used to convert input voltage $0 \div 400 \text{ V} / 50 \text{ Hz}$ and for galvanic isolation;
- measuring integrated circuit XTR106P – generate a standard analog current signal $4 \div 20 \text{ mA}$;
- pluggable 2-wire terminals for input voltage connection;
- pluggable 2-wire terminals for transmitter connection to the secondary device ($4 \div 20 \text{ mA}$).

2. CONNECTION DIAGRAM



3. TECHNICAL DATA

3.1. Connection type:	2-wire;
3.2. Input range:	
- voltage range:	0 ÷ 400 V AC;
3.3. Output current signal:	4 ÷ 20 mA;
3.4. Maximum relative error:	2,5% ± 1LSB;
3.5. Maximum temperature coefficient:	0.065 % / °C
3.6. Overload capacity:	450 V, continuous;
3.7. Ambient temperature (operation):	from -10 °C to +45 °C;
3.8. R _L :	800Ω at 24 VDC;
3.9. Power supply range:	18 ÷ 36 VDC;
3.10. Dimensions (W x H x D):	22,5 x 75 x 105 mm;
3.11. Mounting:	35/7,5 mm DIN-rail

Contacts:

BULGARIA

1505, Sofia

1, Tzarichina str.

Phone: +359 2 870 21 56, +359 888 45 99 53

Fax: +359 2 973 37 27

e-mail: office@stinnovators.com

www.stinnovators.com

