

# 3-WIRE CURRENT TRANSMITTER

## STU – 4



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## USER'S MANUAL

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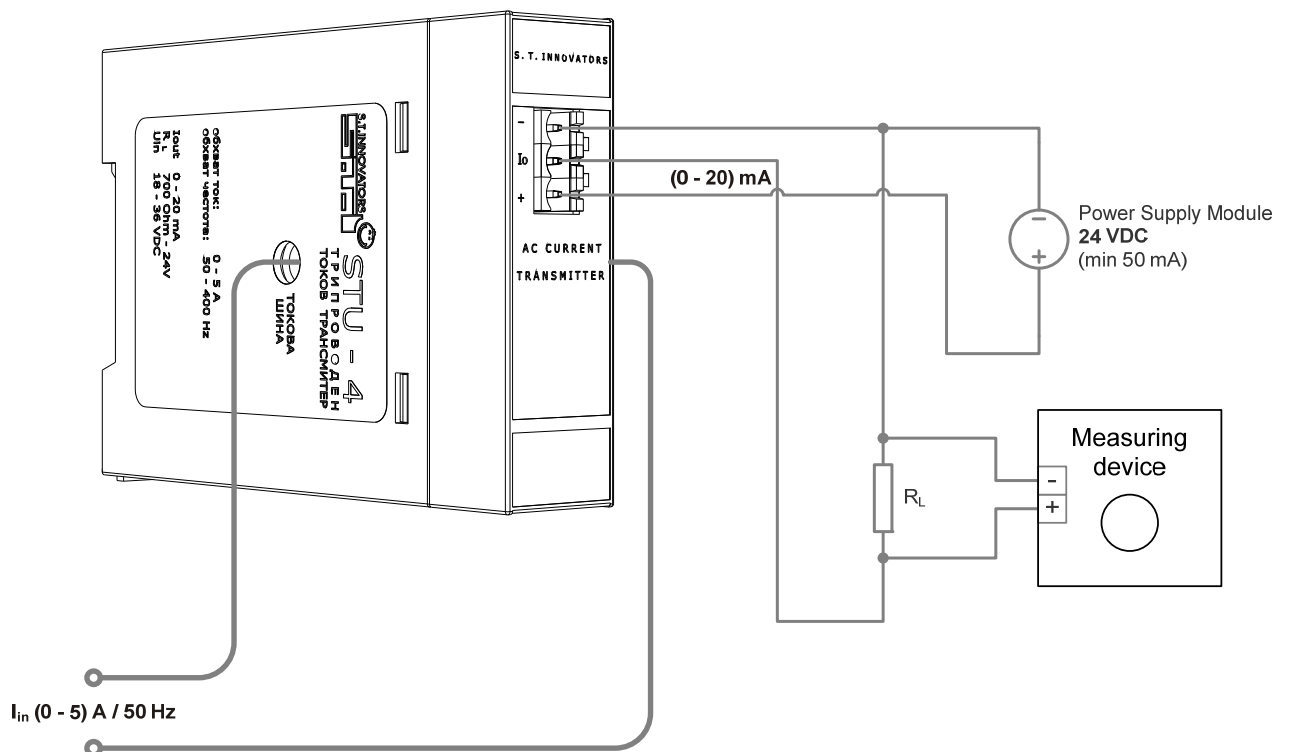
## 1. INTRODUCTION

The 3-wire current transmitter STU – 4 is designed to convert an AC signals  $0 \div 5 \text{ A} / 50 \div 400 \text{ Hz}$  into an analog current signal  $0 \div 20 \text{ mA}$ .

STU – 4 consist of the following main functional blocks and components:

- current transformer CR8348-2500-N, used to convert nominal phase current  $0 \div 5 \text{ A} / 50 \div 400 \text{ Hz}$  into the current signal at a ratio of 1:2500;
- measuring integrated circuit OPA2340;
- OPA2234 - converts voltage into a standard analog current signal  $0 \div 20 \text{ mA}$
- pluggable 3-wire terminals for transmitter connection to the secondary device ( $0 \div 20 \text{ mA}$ ).

## 2. CONNECTION DIAGRAM



### 3. TECHNICAL DATA

3.1. Connection type:	3-wire;
3.2. Input ranges:	
- current range:	0 ÷ 5 A;
- frequency range:	50 ÷ 400 Hz;
3.3. Output current signal:	0 ÷ 20 mA;
3.4. Maximum relative error:	0.2% ± 1LSB
3.5. Overload capacity:	10 A – 5 min;
3.6. Ambient temperature (operation):	from -10 °C to +45 °C;
3.7. $R_L$ :	700Ω at 24 VDC;
3.8. Power supply range:	18 ÷ 36 VDC;
3.9. Dimensions (W x H x D):	22,5 x 75 x 105 mm;
3.10. 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](mailto:office@stinnovators.com)  
[www.stinnovators.com](http://www.stinnovators.com)

