

# 2-WIRE CURRENT TRANSMITTER

## STU – 3



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## USER'S MANUAL

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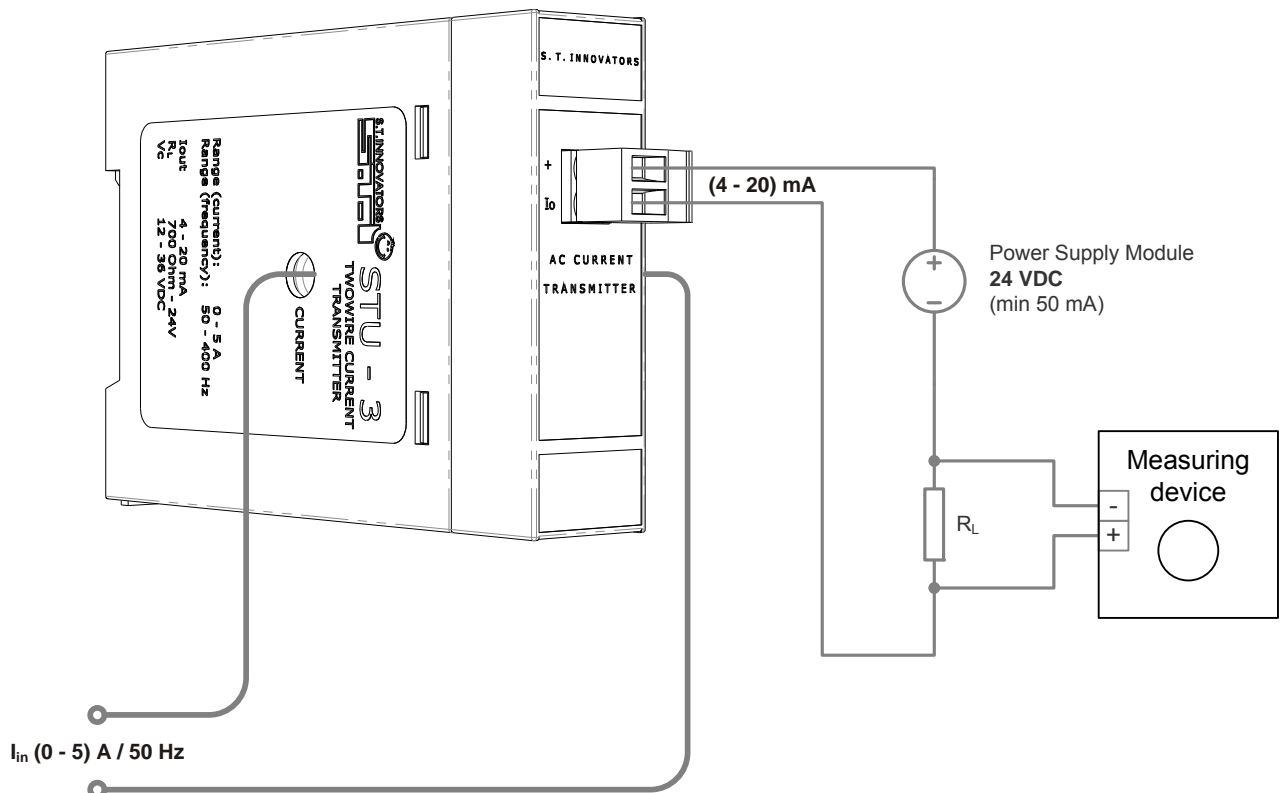
## 1. INTRODUCTION

The 2-wire current transmitter STU – 3 is designed to convert an AC signals  $0 \div 5 \text{ A} / 50 \div 400 \text{ Hz}$  into an analog current signal  $4 \div 20 \text{ mA}$ .

STU – 3 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 XTR106P - scaling converted input current into a standard analog current signal  $4 \div 20 \text{ mA}$
- 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 ranges:	
- current range:	0 ÷ 5 A;
- frequency range:	50 ÷ 400 Hz;
3.3. Output current signal:	4 ÷ 20 mA;
3.4. Maximum relative error:	0.2% ± 1LSB
3.5. Overload capacity:	4 x I <sub>NOM</sub> , continuous;
3.6. Electrical isolation:	1,5 kV rms;
3.7. Ambient temperature (operation):	from -10 °C to +45 °C;
3.8. R <sub>L</sub> :	700Ω at 24 VDC;
3.9. Power supply range:	12 ÷ 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

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