

## Technical Data

### Mains Power Supply

- Connection: according to IEC/EN60320-1; UL498, CSA 22.2
- Mains supply: 90 – 264 V AC, 50/60 Hz or 110 – 350 V DC
- Input power: 200 VA
- Fuse: 2 A / 250 V, type F, not user replaceable

### Output Data

- Test voltages  
1 V, 8 V, 40 V, 80 V AC  
3 x (1, 8, 40, 80)√3 V AC

### Measurement

- Turns ratio measuring range 0,8 – 15 000
- Turns ratio resolution 5 digits
- Typical turns ratio accuracy:

	@80 V AC	@40 V AC
0,8 – 999:	±0,05%	0,8 – 999: ±0,05%
1 000 – 3 999:	±0,05%	1 000 – 3 999: ±0,1%
4 000 – 15 000:	±0,1%	4 000 – 15 000: ±0,2%

  

	@8 V AC	@1 V AC
0,8 – 999:	±0,05%	0,8 – 999: ±0,05%
1 000 – 3 999:	±0,1%	1 000 – 3 999: ±0,1%
4 000 – 15 000:	±0,2%	
- Excitation current range 0 – 2 A
- Excitation current resolution:

0,0000 – 9,9999 mA	0,1 μA
10,000 – 99,999 mA	1 μA
100,00 – 999,99 mA	10 μA
1,0000 – 2,0000 A	100 μA
- Typical excitation current accuracy  
± (0,25% + 500 μA)
- Phase angle range 0 – 360°
- Phase angle resolution 0,01°

- Typical phase angle accuracy ±0,05°

### Display

- LCD screen 20 characters by 4 lines;
- LCD display with backlight, visible in bright sunlight

### Interface

- USB (standard)
- RS232 (optional)

### Data Storage

- TRT33C can store up to 10 000 test results

### Environmental Conditions

- Operating temperature:  
-10 °C – + 55 °C / 14 °F – +131 °F
- Storage & transportation:  
-40 °C – + 70°C / -40 °F – +158 °F
- Humidity: 5 % – 95 % relative humidity, non condensing

### Dimensions and Weight

- Dimensions (W x H x D):  
480 x 190 x 385 mm  
18.90 x 7.48 x 15.16 in
- Weight: 8 kg / 17.6 lbs

### Warranty

- 3 years

### Applicable Standards

- Installation/Overvoltage category: II
- Pollution degree: 2
- Safety: LVD 2006/95/EC (CE Conform)  
Standard EN 61010-1:2001
- EMC: Directive 2004/108/EC (CE Conform)  
Standard EN 61326-1:2006