

TIMP57 Line Loop Adaptor 400KA

- The instrument is fully controlled by means of a RS232 serial interface
- The TIMP57 can be connected to the following Master Instruments: T57, T89, T419
- Instrument results are sent via a RS232 interface to the Master Instrument

Use

The instrument can perform Phase to Phase, Phase to Neutral and Phase to Earth (PE) Impedance measurements as well as Prospective Short Circuit current calculation (according to EN 60909-0).

As the instrument executes a 4 wire measurement (Volt-ampometric measurement mode), the results are not affected by Test Leads and alligator clips and is not necessary to execute any Test Cable calibration. The instrument is provided with special cables with double-contact alligator clips which are electrically separated. The red part of the alligator clips represent

the Current Circuit (C1 and C2) while the black sides (P1 and P2) represent the Voltage measurement circuit.



Technical Specification			
IMPEDANCE MEASUREMENT			
Range	0.1 ÷ 199.9mΩ	200 ÷ 1999mΩ	
Resolution	0.1mΩ	1mΩ	
Accuracy	± (5% reading + 1mΩ)		
RESISTANCE AND REACTANCE MEASUREMENT			
Range	0.1 ÷ 199.9mΩ	200 ÷ 1999mΩ	
Resolution	0.1mΩ	1mΩ	
Accuracy	± (10% reading + 2mΩ)		
PROSPECTIVE SHORT CIRCUIT CURRENT			
Range	0 ÷ 1999A	2.0 ÷ 9.9kA	10 ÷ 1999kA
Resolution	1A	0.1kA	1kA
Accuracy	related to Z accuracy & relationship of paragraph 6.1.2 & 6.2.2		
VOLTAGE			
Range (50Hz ±5%)	200 ÷ 440V		
Resolution	1V		
Accuracy	± (1.0% reading + 2 Digits)		
FREQUENCY			
Range	47.5 - 52.5Hz		
Resolution	0.1Hz		
Accuracy	±0.2Hz		

Model Specification	
Accessories	2 Measuring Cables (L=3m) with Alligator Clip, Software & Cable
Dimensions (mm)	340(L) x 300(W) x 150(H)
Power Source	200 - 400V at 50Hz
Weight	4100g

Loop Impedance and Prospective Short Diagram

The T1825 instrument uses a 3 wire unique principle of operation. The Loop impedance between Line and Earth $Z_L + Z_E = Z_{L-E}$
The prospective short circuit is between Line and Neutral PSC_{L-N}

- V_{L-N} = Main Voltage (with Load = $V@16A$)
- $Z_L + Z_E = Z_{L-E}$ = Loop Impedance
- PSC_{L-N} = Prospective Short Circuit (L to N)
- V_{L-N} = Main Voltage (without Load = $V@0A$)

