

# ANALOG INSULATION RESISTANCE TESTER

**sanwa**



ISO9002 Certified  
JQA-1453  
SANWA TESMEX CO., LTD.



**PDM508S**

## DM508S DM1008S PDM508S

### Introduction

These models are compact lightweight simple operation easy-to-use insulation resistance meters having a rigid structure and a new design of modern feeling. Adoption of inner magnetic field type meter, which excludes influence of external

magnetic field for an indicator needle portion, causes a stable indication to be obtained. The Auto discharge function has been installed. These models are in compliance with JIS C1302 1994 and IEC1010-1 CATIII 600V.

### Feature

- Equipped with the discharge function
- Equipped with the MΩ measuring switch that enables both one-shot and continuous measurement with switch lock function.
- DC voltage up to 60VDC can be measured.
- AC voltage up to 600VAC can be measured.
- Equipped with a strap to suspend from the neck to allow both hands to be used for easurement.

### Standard Accessories

- Test Lead "TL-508S" 1 set
- Instruction manual, 1 copy
- Carrying case "C-08S, 1 piece

## General Specification

AC rectifying method:	Half-wave rectification (Mean value indication rms value converted)
Meter specification:	Inner-pole type taut-band system, 24 $\mu$ A (PDM508S:48 $\mu$ A)
Battery consumption: Allowable temperature/humidity:	Checked by BATTERY CHECK range. 18 ~ 28°C, 75% RH max., no condensation
Service temperature /humidity:	0 ~ 40°C, 80% RH max., no condensation
Storage temperature /humidity:	-10 ~ 50°C, 70% RH max., no condensation
Service ambient condition:	Altitude 2000m max., environment pollution 2
Built-in battery:	Layer built type alkaline battery 6LR61 x 1 (9V)
Max. power consumption:	2.0W ~ 2.6W at M $\Omega$ range
Continuous service hours*:	DM508S Approx. 5.5 hours DM1008S Approx. 4.0 hours PDM508S Approx. 4.0 hours
Applicable standard:	JIS C 1302-1994 Insulation Resistance Testers
Safety standard:	IEC-1010-1 Overvoltage CATIII 600V, protection class 2 (EN61010-1)
Withstand voltage:	3.7kV AC (one minute), between measuring terminal and rear case
Size and weight:	H144 x W99 x D43mm, approx. 310g

\* when indicating the center  
scale value of the M $\Omega$  range

## Measurement range and Accuracy

MODEL	DM508S	DM1008S	PDM508S			
M $\Omega$ (Insulation Resistance)	Rated measuring voltage Large numeral: 1st effective Measuring value Small numeral: 2nd effective					
	500V	0-1-500	1000V	0-2-1000M $\Omega$	500V	0-0.1-50
	1000M $\Omega$	-1000M $\Omega$	2000M $\Omega$	-2000M $\Omega$	100M $\Omega$	-100M $\Omega$
ACV	0 ~ 600V					
DCV	0 ~ 60V					
Accuracy	M $\Omega$ range 1st effective measurement range: $\pm 5\%$ of reading 2nd effective measurement range: $\pm 10\%$ of reading 0, scale: $\pm 0.7\%$ of scale length No load voltage: $\pm 30/0\%$ of rated measuring voltage Rated measuring current: 1 ~ 1.2mA Short Circuit current: max 2mA					