



## 4½ Digit Digital Ammeter and Voltmeter



SMP45S, SMP45ST



SMP9645S  
SMP9645ST



SMP72x14445,  
SMP72x14445T

### Specifications

- **Measuring Method** Dual Slope A/D Conversion
- **Sampling Rate** 2.5 Samples per Second
- **Display Type** Red LED Super Bright Display
- **Maximum Display** 19999 Counts
- **Resolution** 0.0001 to 1 Count depending on the range
- **Polarity Indication** “ - ” is indicated for negative input
- **Decimal Selection** Field Selectable
- **Over Range Indication** "0000" blinking
- **Maximum Overload** Voltage : 1.2 times continuous  
Current : 2 times continuous
- **VA Burden (Typical)** Auxiliary (110 / 230V AC) : < 5VA  
Auxiliary (SMPS) : < 2.5VA  
Voltage Input : < 0.1VA  
Current Input : < 0.5VA, < 0.2VA in 20A
- **Frequency Response** 40 - 400Hz
- **Crest Factor** 4 (max.) TRMS accuracy specified for sine wave input
- **Faceplate / Lens** Red Antiglare Faceplate with Annunciators
- **Environment** Calibration : 27°C ± 5°C,  
Operating : 0 to 50°C, RH < 70%  
Storage : -10 to 60°C, RH < 70%
- **Dielectric Strength** 2.5 kV at 50Hz for 1 min. between Input - Auxiliary - Case - Terminals
- **Case / Housing Material** DIN Black ABS, Dimension as per DIN 43700
- **Mounting Clamps** Sturdy, Moulded ABS with suitable Hardware
- **Connectors** Terminal Block : Thermoplastic (UL 94V-0) with Tin Plated Brass Terminals
- **Note** The Meter reads fluctuations in the Input signal within 5 counts (0.025%)

Model	Input	Range	Auxiliary Power Supply (any one only)			Accuracy Class				Digits (max.)	Display Digit Height	
			110/230V AC	SMPS-LV 19-90V AC/DC	SMPS-HV 85-265V AC/DC	0.1	0.2	0.5	1			
SMP45S/ SMP9645S	DC	mV	0-200mV	✓	✓	✓	-	✓	✓	✓	✓	✓
		V	0-2, 20, 200V	✓	✓	✓	-	-	✓	✓	✓	✓
		V	0-1000V	✓	✓	✓	-	-	✓	✓	✓	✓
	AC	mA	0-2, 20, 200mA	✓	✓	✓	-	-	✓	✓	✓	✓
		A	0-2, 5A	✓	✓	✓	-	-	✓	✓	✓	✓
		Zero Supp.	4-20mA or 1-5V	✓	✓	✓	-	-	✓	✓	✓	✓
SMP45ST/ SMP9645ST	TRMS	V	0-2, 20, 200, 750V	✓	✓	✓	-	-	-	✓	✓	✓
		A	0-2, 5A	✓	✓	✓	-	-	-	✓	✓	✓

### Dimensions (mm)

Model	SMP45S / SMP45ST	SMP9645S / SMP9645ST	SMP72x14445 / SMP72x14445T	SMP14445 / SMP14445T	SMP96x28845
Front	48 x 96	96 x 96	72 x 144	144 x 144	96 x 288
Depth (Behind Bezel)	88	90	130 (standard) 93 (introducing soon)	59	77
Panel Cut-Out	44 <sup>(+0.5, -0.0)</sup> x 92 <sup>(+0.8, -0.0)</sup>	92 <sup>(+0.8, -0.0)</sup> x 92 <sup>(+0.8, -0.0)</sup>	68 <sup>(+0.8, -0.0)</sup> x 138 <sup>(+0.8, -0.0)</sup>	138 <sup>(+0.8, -0.0)</sup> x 138 <sup>(+0.8, -0.0)</sup>	92 <sup>(+0.8, -0.0)</sup> x 282 <sup>(+0.8, -0.0)</sup>

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SMP14445, SMP14445T

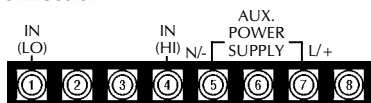


SMP96x28845

Model	Input	Range	Auxiliary Power Supply (any one only)		Accuracy Class			Digits (max.)	Display Digit Height		
			110 / 230V AC	24 / 48 / 110 / 220V DC	0.2	0.5	1	4½	1.0" / 25.4mm	2.3" / 58mm	
SMP72x14445 / SMP14445	DC	mV	0-200mV	✓	✓	✓	✓	✓	✓	-	
		V	0-2, 20, 200V	✓	✓	✓	✓	✓	✓	-	
		V	0-1000V	✓	✓	✓	✓	✓	✓	-	
		mA	0-2, 20, 200mA	✓	✓	✓	✓	✓	✓	-	
		A	0-2, 5A	✓	✓	✓	✓	✓	✓	-	
		Zero Supp.	4-20mA or 1-5V	✓	✓	✓	✓	✓	✓	-	
	AC	V	0-2, 20, 200, 750V	✓	✓	-	✓	✓	✓	✓	-
A		0-2, 5A	✓	✓	-	✓	✓	✓	✓	-	
SMP72x14445T / SMP14445T	TRMS	V	0-2, 20, 200, 750V	✓	✓	-	-	✓	✓	✓	-
		A	0-2, 5A	✓	✓	-	-	✓	✓	✓	-
SMP96x28845	DC	mV	0-200mV	✓	SMPS-LV 19-90V AC/DC	-	✓	✓	✓	-	✓
		V	0-2, 20, 200V	✓		-	✓	✓	✓	-	✓
		V	0-1000V	✓		-	✓	✓	✓	-	✓
		mA	0-2, 20, 200mA	✓	or	-	✓	✓	✓	-	✓
		A	0-2, 5A	✓	SMPS-HV 85-265V AC/DC	-	✓	✓	✓	-	✓
		Zero Supp.	4-20mA or 1-5V	✓		-	✓	✓	✓	-	✓
	AC	V	0-2, 20, 200, 750V	✓	only	-	✓	✓	✓	-	✓
		A	0-2, 5A	✓		-	✓	✓	✓	-	✓

**Ordering Information :** Model, Input Range, CTR / PTR (if any), Scale Display, Auxillary Supply, Accuracy Class & Display Digit Height

### Terminal Connection



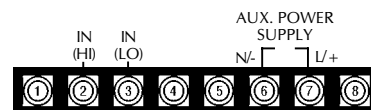
SMP45S / SMP9645S /  
SMP45ST / SMP9645ST



SMP72x14445 / SMP72x14445T



SMP14445 / SMP14445T



SMP96x28845