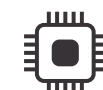




SMP45SW



SMP9645SW



Micro
Controller
Based

Features

- High Accuracy Across the Entire Range
- User Programmable Display (CT Primary / PTR / Shunt Value)
- 19999 Count (Max) High Resolution Display
- Auto Selection of Decimal Point

Specifications

- | | | | |
|--------------------------------|--|-----------------------------------|---|
| ● Measuring Method | TRMS Using Microcontroller | ● VA Burden (Typical) | Auxiliary : ≤ 1.5VA
Voltage Input : ≤ 1VA
Current Input : ≤ 0.5VA |
| ● Display Type | 0.56" / 14.2mm Red LED Super Bright Display | ● Environmental Conditions | 0°C to + 55°C, < 70% RH (Operation)
-10°C to + 70°C, < 70% RH (Storage)
27°C ±5°C (Calibration) |
| ● Maximum Display | 4½ Digit / 19999 (Max.) Counts | ● Dielectric Strength | 2.5KV @ 50Hz for 1 Minute between Input - Auxiliary & Case -Terminals |
| ● Display Stability | Within ±2 Digit | ● Impulse Withstand | 3.5KV, 1.2 / 50 Micro Second |
| ● Resolution | 0.0001 to 1 Count Depending on Range / Scale Display | ● Case / Housing Material | DIN Black ABS, Dimension as per DIN 43700 |
| ● Decimal Point | Auto Selection | ● Faceplate / Lens | Red Antiglare Face plate with Annunciators |
| ● Over Load Indication | "-OL-" | ● Connectors / Terminal | Terminal Block : Thermoplastic (UL94V-0) with Tin Plated Brass Terminal |
| ● Under Load Indication | NA | ● Mounting Clamps | Sturdy, Moulded ABS with Suitable Hardware |
| ● Sampling Rate | 3 Samples / Second | | |
| ● Maximum Overload | Voltage : 1.2 Times Continuous
Current : 1.2 Times Continuous | | |
| ● Frequency Response | 40 - 400Hz | | |
| ● Auxiliary Supply | 85 - 265V AC / DC (Standard)
19 - 90V AC / DC (Optional) | | |
| ● Polarity Indication | "-" is Indicated for Negative Input | | |

Model	Input		Range	Programmable Display Key (inside facia)	Aux. Supply (Any One Only)	Accuracy
SMP45SW / SMP9645SW	DC	mV	0 - 75 (Shunt Operated)	✓[*]	85-265V AC / DC @ 50 / 60Hz OR 19-90V AC/DC @ 50 / 60Hz (Optional)	± 0.5% of FSD
			0 - 200	-		
		V	0 - 2, 20, 200	-		
			0 - 1000	-		
		mA	0 - 2, 20, 200	-		
		A	0 - 2, 5	-		
	AC	V	0 - 110 (PT Operated)	✓[#]		
			0 - 2, 20, 200, 750	-		
		I	0 - 1 (CT Operated)	✓[*]		
			0 - 5 (CT Operated)	✓[*]		

Standard : As per IS 13875

Terminal Connection



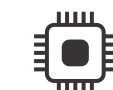
SMP45SW / SMP9645SW



SMP45SW



SMP9645SW



Micro
Controller
Based

User Programmable PTR Display Value (Using Internal Key Inside Facia)

Sr.	Ratio	PTR (KV AC)
1	1	0.110
2	3.77	0.415
3	4	0.440
4	20	2.200

Sr.	Ratio	PTR (KV AC)
5	30	3.300
6	60	6.600
7	100	11.00
8	200	22.00

Sr.	Ratio	PTR (KV AC)
9	300	33.00
10	600	66.00
11	1000	110.0
12	1200	132.0

Sr.	Ratio	PTR (KV AC)
13	2000	220.0
14	4000	440.0
-	-	-
-	-	-

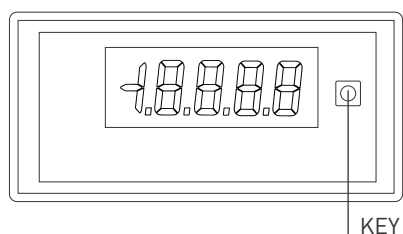
* User Programmable CT Primary / Shunt Display Value (Using Internal Key Inside Facia)

CT Primary / Shunt Display Value							
1	30	80	250	600	1500	5000	10000
5	40	100	300	700	1600	6000	12000
10	50	125	350	750	2000	7000	15000
15	60	150	400	800	2500	7500	20000
20	70	175	450	1000	3000	8000	-
25	75	200	500	1200	4000	9000	-

Dimensions (mm)		
Model	SMP45SW	SMP9645SW
Front	48 x 96	96 x 96
Depth (Behind Bezel)	88	90
Panel Cut-Out	44 ^(+0.5, -0.0) x 92 ^(+0.8, -0.0)	44 ^(+0.5, -0.0) x 92 ^(+0.8, -0.0)

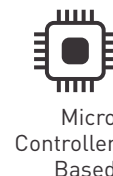
Ordering Information : Model, Input Range, CTR / PTR / SHUNT (if any), Scale Display & Auxiliary Supply

NOTE : This is an Upgraded Version of SMP45S



For Setting CTP / Shunt / PTR

- Power on DPM
- Remove Front Facia
- Press Key on Display Card once
- Meter will Show Present Set Display Value
- Press-Release until the Desired Value is Displayed



SMP45SW



SMP9645SW

Features

- High Accuracy Across the Entire Range
- User Programmable Display -19999 to 19999
- ZERO and SPAN Adjustment through Software

- 19999 Count (Max) High Resolution Display
- Decimal Point : Selectable

Specifications

- **Display Type** 0.56" / 14.2mm Red LED Super Bright Display
- **Maximum Display** 4½ Digit / 19999 (Max.) Counts
- **Display Stability** Within ±2 Digit
- **Resolution** 0.0001 to 1 Count Depending on Range / Scale Display
- **Over Load Indication** "-OL-"
- **Under Load Indication** "-UL-"
- **Sampling Rate** 3 Samples / Second
- **Maximum Overload** Voltage : 1.2 Times Continuous
Current : 1.2 Times Continuous
- **Auxiliary Supply** 85 - 265V AC / DC (Standard)
19 - 90V AC / DC (Optional)
- **VA Burden (Typical)** Auxiliary : ≤ 1.5VA
Voltage Input : ≤ 1.0VA
Current Input : ≤ 1.0VA

- **Polarity Indication** Yes
- **Environmental Conditions** 0°C to + 55°C, < 70% RH (Operation)
-10°C to + 70°C, < 70% RH (Storage)
27°C ±5°C (Calibration)
- **Dielectric Strength** 2.5KV @ 50Hz for 1 Minute between Input - Auxiliary & Case -Terminals
- **Impulse Withstand** 3.5KV, 1.2 / 50 Micro Second
- **Case / Housing Material** DIN Black ABS, Dimension as per DIN 43700
- **Faceplate / Lens** Red Antiglare Face plate with Annunciators
- **Connectors / Terminal** Terminal Block : Thermoplastic (UL94V-0) with Tin Plated Brass Terminal
- **Mounting Clamps** Sturdy, Moulded ABS with Suitable Hardware

Model	Input		Range	Programmable Display Key (inside facia)	Aux Supply (Any One Only)	Accuracy
SMP45SW / SMP9645SW	DC	mA	4 - 20	✓	85-265V AC/DC @ 50/60Hz OR 19-90V AC/DC @ 50/60Hz	±0.5% of FSD
			-20 / 0 / 20	✓		
			0 - 20	✓		
		V	-10 / 0 / 10	✓		
			0 - 10	✓		

Ordering Information : Model, Input Range, Scale Display, Annunciator & Auxiliary Supply.

Standard : As per IS 13875

Annunciators

°C	rpm	Hz	pH	kmph	db	mmhg	N/m²	MPM	sph	x100	Ft/s	°F	rad
%	mm	kg	MW	kvar	cosφ	psi	bar	CPS	Rev/s	m³/min	Ltr/hr	TON	Lux

Terminal Connection



SMP45SW / SMP9645SW

Dimensions (mm)

Model	SMP45SW	SMP9645SW
Front	48 x 96	96 x 96
Depth (Behind Bezel)	88	90
Panel Cut-Out	44 ^(+0.5, -0.0) x 92 ^(+0.8, -0.0)	92 ^(+0.8, -0.0) x 92 ^(+0.8, -0.0)