

STEFAN[®]
ELECTRIC

CATALOGUE 2026

Digital meters

Precision Panel Instruments

Multifunction • Voltage • Current • Frequency



SMF-200

Three Phase Multifunction Meter

- 3Ø True RMS (Voltage, Current)
- 3Ø Power (Active, Reactive, Apparent)
- Energy (Active, Reactive, Apparent)
- Programmable CT / PT Primary / Secondary
- Single Pulse Output
- Phase Angle Detection
- Max / Min Demand Power
- Run Hour
- Auxiliary Interrupts



Display Specifications

Display	3 rows, 7 segments LED Display
Digits	4

Input Specifications

Electrical Connection	3Ø - 3 wire, 3Ø - 4 wire, 2Ø - 3 wire, 1Ø - 2 wire
Input Voltage Range	11 to 300V AC (L - N) 19 to 519V AC (L - L)
Input Current Range	Nominal 5A AC (Min - 14mA, Max - 6A)
Frequency	45 to 65Hz
Display Scrolling	Automatic / Manual / Default
Power Consumption	8VA max
Display Reset	Programmable (For energy, Auxiliary interrupt, Run hour)
Resolution	For energy : 0.01k, 0.1k, 1k, 0.01M, 0.1M, 1M (depending upon CT ratio X PT ratio) For Power, Voltage, Current : Auto Resolution For Power Factor : 0.001
Accuracy	Voltage (L - N / L - L) : $\pm 0.5\%$ of F.S. Current : $\pm 0.5\%$ of F.S. Power Factor : ± 0.01 Frequency : $\pm 0.1\%$ For L - N voltage > 20V For L - L voltage > 35V Power (Active, Reactive, Apparent) : 1% Energy (Active, Reactive, Apparent) : Class 1
Memory Retention	10 years (For energy)
Measuring Parameters	Voltage (L - L / L - N) (Individual / Average), Current (Individual / Average), Frequency, Power Factor (Individual / Average), Active, Reactive & Apparent Power (Individual / Total), Active, Reactive & Apparent Energy (Total), Phase Angle, CT Polarity Error, Run Hour, Auxiliary Interrupt, Max Power Demand (Active, Reactive & Apparent), Min Power Demand (Active & Reactive)

Output Specifications

Pulse Output	Voltage Range : External 6V DC max Current Capacity : 100mA max Pulse Width : 100ms $\pm$ 5ms
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Three Phase Multifunction Meter

Auxiliary Supply Specifications

Supply Voltage	240V AC ($\pm 20\%$), 50 / 60Hz
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Settable Parameters

CT Primary	1 / 5A to 10kA (Programmable for any value)
CT Secondary	1 / 5A (Programmable)
PT Primary	100V to 500kV (Programmable for any value)
PT Secondary	100V to 500V (Programmable for any value)

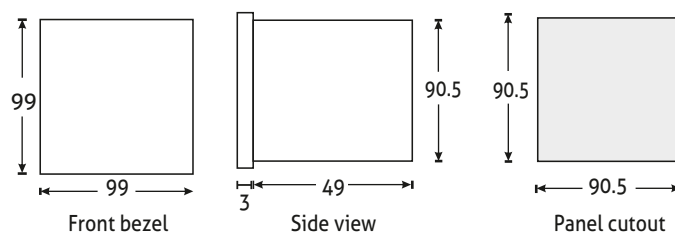
Environmental Specifications

Temperature	Operating : -10° to 55°C Storage : -20° to 75°C
Humidity (non - condensing)	Upto 85% RH

Mechanical Specifications

Mounting	Panel
Weight	260gms

Dimensions / mm



Certification

CE RoHS

SMF-300

Three Phase Multifunction Meter

- 3Ø True RMS (Voltage, Current)
- 3Ø Power (Active, Reactive, Apparent)
- Import / Export Energy (Active, Reactive)
- Energy (Active, Reactive, Apparent)
- Max / Min Demand Power, Max Demand Current
- Programmable CT / PT Primary / Secondary
- Single Pulse Output
- Phase Angle Detection
- Run Hour
- Auxiliary Interrupts
- %THD Upto 31st level



Display Specifications

Display	3 rows, 7 segments LED Display
Digits	4

Input Specifications

Electrical Connection	3Ø - 3 wire, 3Ø - 4 wire, 2Ø - 3 wire, 1Ø - 2 wire
Input Voltage Range	11 to 300V AC (L - N) 19 to 519V AC (L - L)
Input Current Range	Nominal 5A AC (Min - 14mA, Max - 6A)
Frequency	45 to 65Hz
Display Scrolling	Automatic / Manual / Default
Power Consumption	8VA max
Display Reset	Programmable (For energy, Auxiliary interrupt, Run hour)
Resolution	For energy : 0.01k, 0.1k, 1k, 0.01M, 0.1M, 1M (depending upon CT ratio X PT ratio) For Power, Voltage, Current : Auto Resolution For Power Factor : 0.001
Accuracy	Voltage (L - N / L - L) : $\pm 0.5\%$ of F.S. Current : $\pm 0.5\%$ of F.S. Power Factor : ± 0.01 Frequency : $\pm 0.1\%$ For L - N voltage > 20V For L - L voltage > 35V Power (Active, Reactive, Apparent) : 1% Energy (Active, Reactive, Apparent) : Class 1
Memory Retention	10 years (For energy)
Measuring Parameters	Voltage (L - L / L - N) (Individual / Average), Current (Individual / Average), Frequency, Power Factor (Individual / Average), Active, Reactive & Apparent Power (Individual / Total), Active, Reactive & Apparent Energy (Total), Phase Angle, CT Polarity Error, Run Hour, Auxiliary Interrupt, Max Power Demand (Active, Reactive & Apparent), Min Power Demand (Active & Reactive)

Output Specifications

Pulse Output	Voltage Range : External 24V DC max Current Capacity : 100mA max Pulse Width : 100ms $\pm$ 5ms
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Three Phase Multifunction Meter

Output Specifications (continued)

Communication Interface and Protocol	RS485 and MODBUS RTU
Communication Address	1 to 255
Transmission Mode	Half duplex
Transmission Distance	500 meter maximum
Transmission Speed	300, 600, 1200, 2400, 4800, 9600, 19200 (in bps)
Parity	None, Odd, Even
Stop Bits	1 or 2
Response Time	100ms (max and independent of baud rate)

Auxiliary Supply Specifications

Supply Voltage	240V AC ($\pm 20\%$), 50 / 60Hz
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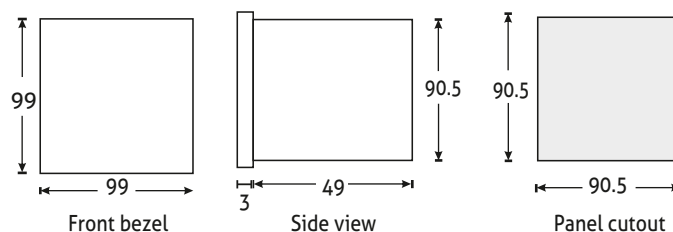
Settable Parameters

CT Primary	1 / 5A to 10kA (Programmable for any value)
CT Secondary	1 / 5A (Programmable)
PT Primary	100V to 500kV (Programmable for any value)
PT Secondary	100V to 500V (Programmable for any value)

Mechanical Specifications

Mounting	Panel
Weight	260gms

Dimensions / mm



Certification

CE RoHS

SMF-400

Three Phase Multifunction Meter

- 3Ø True RMS (Voltage, Current)
- 3Ø Power (Active, Reactive, Apparent)
- Import / Export Energy (Active, Reactive)
- Energy (Active, Reactive, Apparent)
- CT Polarity Error Detection
- Programmable CT / PT Primary / Secondary
- Single Phase Network with Phase Selection
- Phase Sequence Detection
- Variable Pulse Width Selection
- Single Pulse Output / Demand
- %THD Upto 31st level
- Modbus RTU Communication (RS485)
- Baragraph Representation for Current



Display Specifications

Display	4 rows, LCD Backlight
Digits	4 (Lowest 8 digits for energy display)
Bargraph	For Current Representation

Input Specifications

Electrical Connection	3Ø - 3 wire, 3Ø - 4 wire, 2Ø - 3 wire, 1Ø - 2 wire
Input Voltage Range	11 to 300V AC (L - N) 19 to 519V AC (L - L)
Input Current Range	Nominal 5A AC (Min - 14mA, Max - 6A)
Frequency	45 to 65Hz
Display Scrolling	Automatic / Manual / Default
Power Consumption	8VA max
Display Reset	Programmable (For energy, Auxiliary interrupt, Run hour)
Resolution	For energy : 0.01k, 0.1k, 1k, 0.01M, 0.1M, 1M (depending upon CT ratio X PT ratio) For Power, Voltage, Current : Auto Resolution For Power Factor : 0.001
Accuracy	Voltage (L - N / L - L) : $\pm 0.5\%$ of F.S. Current : $\pm 0.5\%$ of F.S. Power Factor : ± 0.01 Frequency : $\pm 0.1\%$ For L - N voltage > 20V For L - L voltage > 35V Power (Active, Reactive, Apparent) : 1% Energy (Active, Reactive, Apparent) : Class 1
Memory Retention	10 years (For energy)
Measuring Parameters	Voltage (L - L / L - N) (Individual / Average), Current (Individual / Average), Frequency, Power Factor (Individual / Average), Active, Reactive & Apparent Power (Individual / Total), Active, Reactive & Apparent Energy (Total), Phase Angle, CT Polarity Error, Run Hour, Auxiliary Interrupt, Max Power Demand (Active, Reactive & Apparent), Min Power Demand (Active & Reactive)

Three Phase Multifunction Meter

Output Specifications

Pulse Output	Voltage Range : External 24V DC max Current Capacity : 100mA max Pulse Width : 100ms $\pm$ 5ms
Communication Interface and Protocol	RS485 and MODBUS RTU
Communication Address	1 to 255
Transmission Mode	Half duplex
Transmission Distance	500 meter maximum
Transmission Speed	300, 600, 1200, 2400, 4800, 9600, 19200 (in bps)
Parity	None, Odd, Even
Stop Bits	1 or 2
Response Time	100ms (max and independent of baud rate)

Auxiliary Supply Specifications

Supply Voltage	100 to 240V AC ($\pm$ 20%), 50 / 60Hz
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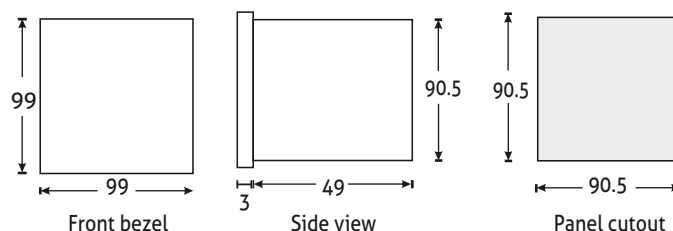
Settable Parameters

CT Primary	1 / 5A to 10kA (Programmable for any value)
CT Secondary	1 / 5A (Programmable)
PT Primary	100V to 500kV (Programmable for any value)
PT Secondary	100V to 500V (Programmable for any value)

Mechanical Specifications

Mounting	Panel
Weight	318 gms

Dimensions / mm



Certification



SDV-91

Single Phase Digital Volt Meter

- True RMS Measurement
- For 1 Phase 2 Wire Electrical Network



Display Specifications

Display	Single row, 7 segments LED Display
Digits	3
Digit Height	0.56" (14.2mm)
Display Range	0 - 516V

Input Specifications

Electrical Connection	1 Ø-2 wire
Input Type	AC
Input Voltage Range	50-480V
Continuous Max. Input Rating	516V
Overrange Indication	"Or" for input > 516V
Frequency	50 / 60Hz
Resolution	1V
Accuracy	±0.5% of F.S
Input Impedance	1MΩ (± 5%)
Sampling Rate	3 samples / second
Dielectric withstand Voltage	2kV AC between auxiliary supply & measuring input
Rated Impulse withstand Voltage	3.5kV (1.2/50μS)

Auxiliary Supply Specifications

Auxiliary Supply	240V AC (±20%), 50 / 60Hz 110V AC (±20%), 60Hz
Power Consumption	5VA max

Single Phase Digital Volt Meter

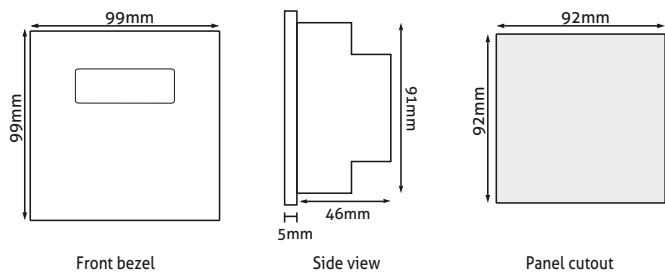
Environmental Specifications

Temperature	Operating : -10° to 55°C Storage : -20° to 75°C
Humidity (non - condensing)	Upto 95% RH

Mechanical Specifications

Mounting	Panel
Weight	180 gms

Dimensions / mm



Certification

CE RoHS

SDA-91

Single Phase Digital Ampere Meter

- True RMS Measurement
- CT Primary Programmable upto 4000A



Display Specifications

Display	Single row, 7 segments LED Display
Digits	4
Digit Height	0.56" (14.2mm)
Display Range	0-4960A

Input Specifications

Electrical Connection	1 Ø-2 wire
Input Type	AC
Input Current Range	50mA - 5A
Continuous Max. Input Rating	6.2A
Overrange Indication	"Or" for input > 6.2A
Frequency	50 / 60Hz
Resolution	0.001, 0.01, 0.1, 1A (Depending upon CT Primary)
Accuracy	±0.5% of CT primary / shunt setting
Input Burden	0.5 VA at 5A
Sampling Rate	3 samples / second
Dielectric withstand Voltage	2kV AC between auxiliary supply & measuring input
Rated Impulse withstand	3.5kV (1.2/50µS)

Auxiliary Supply Specifications

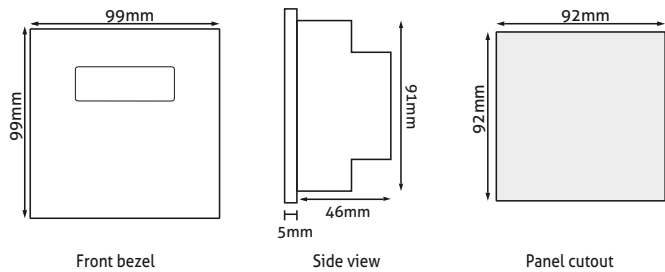
Auxiliary Supply	240V AC (±20%), 50 / 60Hz 110V AC (±20%), 60Hz
Power Consumption	5VA max

Single Phase Digital Ampere Meter

Settable Parameters	
CT Primary / Shunt Setting	5, 10, 20, 30, 40, 50, 60, 75, 80, 100, 150, 200, 250, 300, 400, 500, 600, 800, 1000, 1200, 1500, 1600, 2000, 2500, 3000, 4000
CT Secondary	5A (Fixed)

Mechanical Specifications	
Mounting	Panel
Weight	180 gms

Dimensions / mm



Certification

CE RoHS

SDV-93

Three Phase Digital Volt Meter

- 4 Digit, 7 Segment LED Display
- True RMS Measurement
- For 3Ø - 4W, 3Ø - 3W, 1Ø - 2W Electrical Network
- K LED for kilo indication



Display Specifications

Display	Single row, 7 segments LED Display
Digits	4
Digit Height	0.56" (14.2mm)

Input Specifications

Electrical Connection	1 Ø-2 wire, 3Ø-3 wire, 3 Ø-4 wire
Input Type	AC
Input Current Range	11-300V (L-N), 19-516V (L-L)
Continuous Max. Input Rating	120% of rated I/P voltage
Overrange Indication	"Or" for input > 516V (L-L) "Or" for input > 300V (L-N)
Frequency	50 / 60Hz
Resolution	Auto Resolution
Accuracy	±0.5% of F. S
Update Rate	1 Sec
Impedance	1MW (±5%)

Auxiliary Supply Specifications

Auxiliary Supply	230V AC (±20%), 50 / 60Hz
Power Consumption	5VA max

Settable Parameters

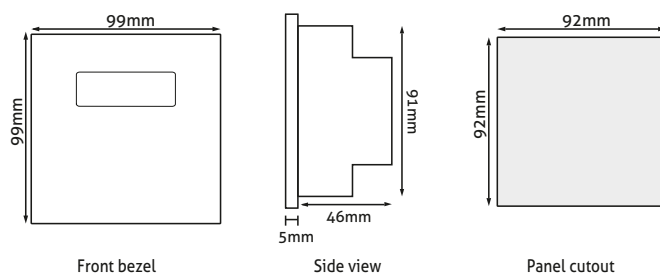
PT Primary	100V - 999kV (Programmable to any Value)
PT Secondary	100V - 500V

Three Phase Digital Volt Meter

Mechanical Specifications

Mounting	Panel
Weight	180 gms

Dimensions / mm



Certification

CE RoHS

SDA-93

Three Phase Digital Ampere Meter

- 4 Digit, 7 Segment LED Display
- True RMS Measurement
- For 3Ø - 4W, 3Ø - 3W, 1Ø - 2W Electrical Network
- K LED for kilo indication



Display Specifications

Display	Single row, 7 segments LED Display
Digits	4
Digit Height	0.56" (14.2mm)

Input Specifications

Electrical Connection	1 Ø-2 wire, 3Ø-3 wire, 3 Ø-4 wire
Input Type	AC
Input Current Range	11-300V (L-N), 19-516V (L-L)
Continuous Max. Input Rating	120% of rated I/P voltage
Overrange Indication	"Or" for input > 516V (L-L) "Or" for input > 300V (L-N)
Frequency	50 / 60Hz
Resolution	Auto Resolution
Accuracy	±0.5% of F. S
Update Rate	1 Sec
Impedance	1MW (±5%)

Auxiliary Supply Specifications

Auxiliary Supply	230V AC (±20%), 50 / 60Hz
Power Consumption	5VA max

Settable Parameters

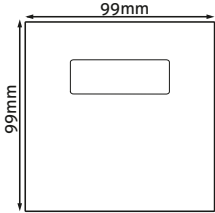
PT Primary	100V - 999kV (Programmable to any Value)
PT Secondary	100V - 500V

Three Phase Digital Ampere Meter

Settable Parameters	
CT Primary / Shunt Setting	5, 10, 20, 30, 40, 50, 60, 75, 80, 100, 150, 200, 250, 300, 400, 500, 600, 800, 1000, 1200, 1500, 1600, 2000, 2500, 3000, 4000
CT Secondary	5A (Fixed)

Mechanical Specifications	
Mounting	Panel
Weight	180 gms

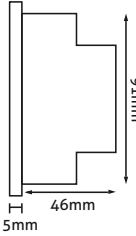
Dimensions / mm



99mm

99mm

Front bezel

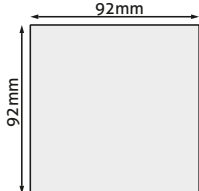


5mm

46mm

91mm

Side view



92mm

92mm

Panel cutout

Certification

CE RoHS

Source note: the supplied catalogue includes voltage ranges and PT settings in this current-meter section. These entries are retained as supplied and require confirmation.

SDF-96

Digital Frequency Meter

- 4 Digit, 7 Segment LED Display
- 0.01 Resolution



Display Specifications

Display	Single row, 7 segments LED Display
Digits	4
Digit Height	0.56" (14.2mm)

Input Specifications

Electrical Connection	1 Ø - 2 Wire
Input Voltage Range	Self Powered
Measurement Range	45.00 - 65.00 Hz
Resolution	0.01
Resolution	Auto Resolution (Depend upon CT Ratio)
Accuracy	±0.5% of F. S
Over Range Indication	"Ovfr" (Over 65.00 Hz)
Under Range Indication	"Ufr" (Under 45.00 Hz)

Auxiliary Supply Specifications

Auxiliary Supply	240V AC (±20%), 45 - 65Hz 110V AC (±20%), 45 - 65Hz
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Environmental Specifications

Temperature	Operating : -10° to 55°C Storage : -20° to 75°C
Humidity (non - condensing)	Upto 95% RH

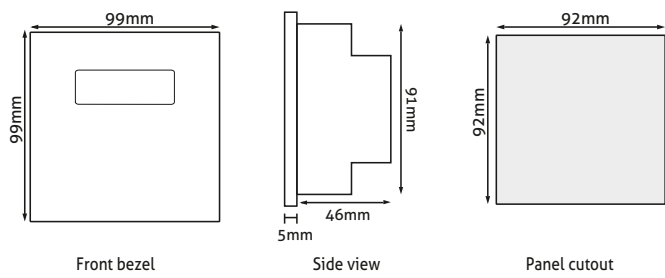
Mechanical Specifications

Mounting	Panel
Weight	200 gms

Digital Frequency Meter

Mechanical Specifications	
Mounting	Panel
Weight	180 gms

Dimensions / mm



Certification

CE RoHS

Source note: two mechanical specifications list different weights (180 g and 200 g). Both source entries are retained; confirm the applicable weight.