SIEMENS

Technical Data

Adaptive meters for single phase future proof metering
S2AS-100
S2AS-200

Voltage values

Rated voltage Un

Nominal value	230 V

Voltage range	0.8 up to 1.15 x Un

Current values

Basic current Ib	for parameterizing to 10 A or 20 A
Maximum current Imax	for parameterizing to 100 A
Measuring range	40 mA up to 100 A

Load capacity

Measurements	100 A

Power consumption

Voltage circuit burden	≤ 0.5 W / 9 VA, typ. 0.4W
VA burden of the current circuit at $I_{max.}$	≤ 0.25 W / 0.25 VA

Measuring accuracy

Accuracy

Accuracy according to IEC 61036	Class 2

Output values

Display	liquid crystal display LCD
	6mm, 6 digits [00000.0 kWh

Test output

Type	red-LED
Meter constant R	1’000 pulses per kWh
Pulse length	Approx. 7 ms

Pulse output r53 (option)

Type	S0-interface
Standard	DIN 43864
Values	1000 pulses per kWh
Pulse length	80 ms

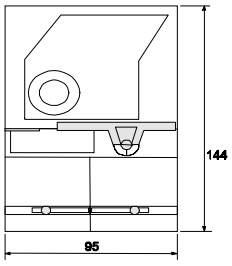
External influences

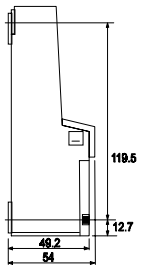
Temperature range

Operation	-10 °C to +45 °C
Storage	-25 °C to +70 °C

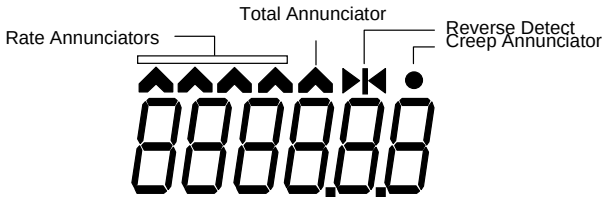
Protection class	IP 51 to IEC 60529
Impulse voltage resistance	6 kV
Electromagnetic compatibility	
Electrostatic discharges	to IEC 61000-4-2
- Contact discharges	8 kV
Electromagnetic high frequency fields	to IEC 61000-4-3
High frequency fields	
- 27 MHz up to 500 MHz	at least 10 V per m
- 100 kHz up to 1 GHz	Typ. 30 V per m
Line transients	to IEC 61000-4-4
- for current and voltage circuits	2 kV
- for auxiliary circuits > 40 V	1 kV
Radio interference suppression	to IEC/CISPR 22 class B
Weight	450 g

Dimensions



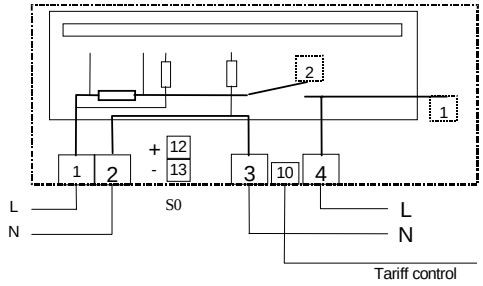


Layout of LCD display



Rate register formats
88888
88888.8
8888.88
8888.8

Connection diagrams



100A contactor “1” not available in S2AS-200

Installer switch “2” not available in S2AS-200, replaced by permanent connection.

Power Transmission and Distribution Group
Metering Division

Siemens Metering Ltd
CH-6301 Zug/Switzerland

Siemens Metering Ltd
Feldstrasse 1
CH-6301 Zug
Tel. +41 41-724 41 41
Fax +41 41-724 41 42
http://www.siemet.com

Order Nr. H 71 0200 0011 a en
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Order contact Zug: 2892