

## SZ-03A-K

### Three Phase Standard Meter

The standard meter SZ-03A-K is a three-phase or single phase electronic standard meter of accuracy class 0.05. This equipment has been developed for the testing of electricity meters by means of meter test benches. It is designed for all modes of operation in three phase systems up to 120 A.



## Features

- High precision and long term stability
- Excellent price / performance ratio
- Universal unit for many applications
- Measure various kinds of electric parameters in the three-phase or single phase circuit at the same time
- Calculate directly the reactive power makes the phase place very accurate in angle measurement Only three electric energy constants, calibration is simple, the result is reliable
- RS232 and RS485 interface, can be used with computer system

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# Technical Specification

<b>Power supply</b>	
<b>Voltage</b>	AC220V $\pm$ 10%
<b>Frequency</b>	50Hz $\pm$ 2 Hz
<b>Max power consumption</b>	40VA
<b>Using condition</b>	
<b>Environment temperature:</b>	5 $^{\circ}$ C ... 40 $^{\circ}$ C
<b>Relative humidity</b>	35% ... 85%
<b>Outside magnetic intensity</b>	$\leq$ 0.025mT
<b>Frequency range</b>	45Hz ... 65Hz
<b>Test current</b>	
<b>Range</b>	10mA ... 120A
<b>Error</b>	$\pm$ 0.05%(1 ... 20mA)(relative range full-scale value) $\pm$ 0.05%(20mA ... 120A)( relative measurement value)
<b>Current display</b>	
<b>Range</b>	10.000mA ... 120.000A (1A,10A,100A)
<b>Error</b>	$\pm$ 0.05%(relative measurement value)
<b>Test voltage</b>	
<b>Range</b>	50V ... 480V (automatic range switch)
<b>Error</b>	$\pm$ 0.05%(10V ... 480V)( relative measurement value)
<b>Voltage display</b>	
<b>Range</b>	50.000(V) ... 480.000(V)
<b>Error</b>	$\pm$ 0.05%( relative measurement value)
<b>Power measure error</b>	
<b>Active power</b>	$\pm$ 0.05 % (relative measurement value) 50 V ... 480 V、0.2 A ... 120 A
<b>Reactive power</b>	$\pm$ 0.1 % (relative measurement value) 50 V ... 480 V、0.2 A ... 120A
<b>Apparent power</b>	$\pm$ 0.1 % (relative measurement value) 50 V ... 480 V、0.2 A ... 120A
<b>Test Power Factor(PF=P/S) Error</b>	$\leq$ 0.05%
<b>Display range</b>	-1.00000 ... +1.00000
<b>Power constant</b>	$C_H=10^9$ imp/kWh (1A step) $C_H=10^8$ imp/kWh(10A step) $C_H=10^7$ imp/kWh(100A step) $C_L=CH/5000$
<b>Measuring modes</b>	4 wire active/reactive/factitious reactive 3 wire active/reactive/factitious reactive 2 wire active/reactive
<b>Measurement range of input</b>	
<b>Rated voltage</b>	50 V ... 480 V
<b>Rated current</b>	0.05 A ... 120 A
<b>Output</b>	TTL pulse, load $>$ 2k $\Omega$ High frequency pulse output: $f_H$ Low frequency pulse output: $f_L$
<b>Dimensions(H<math>\times</math>W<math>\times</math>D)</b>	131mm $\times$ 432mm $\times$ 308mm
<b>Weight</b>	15kg