

Measurement setting ranges and accuracy

■ The accuracy of the current measurements depends on both the value displayed (or transmitted) and the circuit-breaker rating, where:
Accuracy = $0.5\% I_n + 1.5\%$ reading

Example:
For a circuit breaker with a 4000 A rating and a current displayed on Micrologic of 49 A, the accuracy is:
 $0.5\% \times 4000 + 1.5\% \times 49 = \pm 21$ A

Measurement setting ranges and accuracy

Type	Range	Accuracy at 25 °C
instantaneous current		
I1, I2, I3	$0.005 \times I_n$ to $20 \times I_n$	$\pm 1.5\%$
IN	$0.005 \times I_n$ to $20 \times I_n$	$\pm 1.5\%$
I ↓ ground	$0.005 \times I_n$ to I_n	$\pm 10\%$
I ↓ earth leakage	0 to 30 A	$\pm 1.5\%$
I1 max, I2 max, I3 max	$0.005 \times I_n$ to $20 \times I_n$	$\pm 1.5\%$
IN max	$0.005 \times I_n$ to $20 \times I_n$	$\pm 1.5\%$
I ↓ max ground	$0.005 \times I_n$ to I_n	$\pm 10\%$
I ↓ max earth leakage	0 to 30 A	$\pm 1.5\%$
demand current		
I1, I2, I3	$0.005 \times I_n$ to $20 \times I_n$	$\pm 1.5\%$
IN	$0.005 \times I_n$ to $20 \times I_n$	$\pm 1.5\%$
I1 max, I2 max, I3 max	$0.005 \times I_n$ to $20 \times I_n$	$\pm 1.5\%$
IN max	$0.005 \times I_n$ to $20 \times I_n$	$\pm 1.5\%$
phase-to-phase voltages		
U12	170 to 1150 V	$\pm 0.5\%$
U23	170 to 1150 V	$\pm 0.5\%$
U31	170 to 1150 V	$\pm 0.5\%$
phase-to-neutral voltages		
V1N	100 to 1150 V	$\pm 0.5\%$
V2N	100 to 1150 V	$\pm 0.5\%$
V3N	100 to 1150 V	$\pm 0.5\%$
average voltage		
U avg	170 to 1150 V	$\pm 0.5\%$
voltage unbalance		
U unbal	0 to 100 %	$\pm 0.5\%$
instantaneous power		
P	0.015 to 184 MW	$\pm 2\%$
Q	0.015 to 184 Mvar	$\pm 2\%$
S	0.015 to 184 MVA	$\pm 2\%$
power factor		
PF	-1 to +1	$\pm 2\%$
demand power		
P	0.015 to 184 MW	$\pm 2\%$
Q	0.015 to 184 Mvar	$\pm 2\%$
S	0.015 to 184 MVA	$\pm 2\%$
P max	0.015 to 184 MW	$\pm 2\%$
Q max	0.015 to 184 Mvar	$\pm 2\%$
S max	0.015 to 184 MVA	$\pm 2\%$
total energy		
E.P	-10^{10} GWh to $+10^{10}$ GWh	$\pm 2\%$
E.Q	-10^{10} Gvarh to $+10^{10}$ Gvarh	$\pm 2\%$
E.S	-10^{10} GVAh to $+10^{10}$ GVAh	$\pm 2\%$
total energy in		
E.P	-10^{10} GWh to $+10^{10}$ GWh	$\pm 2\%$
E.Q	-10^{10} Gvarh to $+10^{10}$ Gvarh	$\pm 2\%$
total energy out		
E.P	-10^{10} GWh to $+10^{10}$ GWh	$\pm 2\%$
E.Q	-10^{10} Gvarh to $+10^{10}$ Gvarh	$\pm 2\%$
frequency		
F	45 Hz to 440 Hz	$\pm 0.1\%$