

INTELLPAK Square Root Extraction Computing Unit | IP50SQA/SQC

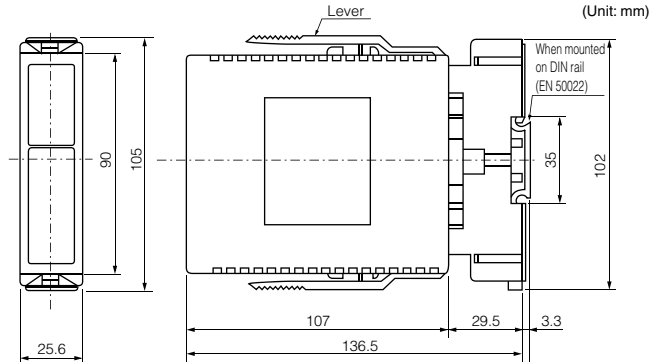
The INTELLPAK IP50SQA/SQC is a thin plug-in square root extraction computing unit which receives a DC signal input having square-law characteristics and generates a DC signal output equivalent to the square root of the input signal.



Specifications

Input	Input type	DC voltage and DC current, Refer to Table 1.		
Output	Output type	DC voltage and DC current, Refer to Table 2.		
General specifications	Accuracy	±0.2% FS at the reference temperature of 23 °C		
	Response time	25 ms for 90% response time		
	Power supply type	AC		DC
	Rated power supply voltage	100/110/120 Vac 50/60 Hz	200/220/240 Vac 50/60 Hz	24 Vdc
	Power consumption	Approx. 5.0 VA		Approx. 2.4 VA
	Weight	Approx. 200 g (including base socket)		

External dimensions



Model No. configuration

Ex.: IP50SQA10ADT0

Basic model No.	Input type	Output type	Power supply voltage	Addition	Description
IP50SQA					Non-isolation type square root extraction computing unit
IP50SQC					Isolation type square root extraction computing unit
Select from Table 1 ▶	Select from Table 2 ▶				
			A		100/110/120 Vac 50/60 Hz
			B		200/220/240 Vac 50/60 Hz
			D		24 Vdc
				00	None
				T0	Tropicalization treatment
				D0	Inspection certificate
				B0	Tropicalization treatment + inspection certificate
				Y0	Supports traceability certification

Table 1. Input types

Additional code	Input type	Input impedance
10	0 to 10 mV	1 MΩ
11	0 to 100 mV	1 MΩ
12	0 to 1 V	1 MΩ
13	0 to 5 V	1 MΩ
14	1 to 5 V	1 MΩ
15	0 to 10 V	1 MΩ
16	0 to 50 mV	1 MΩ
17	0 to 60 mV	1 MΩ
30	0 to 10 μA	1 kΩ
31	0 to 100 μA	100 Ω
32	0 to 1 mA	100 Ω
33	0 to 10 mA	50 Ω
34	0 to 16 mA	50 Ω
35	0 to 20 mA	50 Ω
36	4 to 20 mA	50 Ω

Note: Input type 0 to 10 μA can be selected, but it cannot be used for converting the frame current of a protect relay or frame relay.

Table 2. Output types

Additional code	Output type	Allowable load resistance
A	4 to 20 mA	750 Ω or less
B	1 to 5 mA	3 kΩ or less
C	2 to 10 mA	1.5 kΩ or less
D	0 to 1 mA	15 kΩ or less
E	0 to 10 mA	1.5 kΩ or less
F	0 to 16 mA	937 Ω or less
G	0 to 20 mA	750 Ω or less
H	1 to 5 V	2.5 kΩ or more
J	0 to 10 mV	10 kΩ or more
K	0 to 100 mV	100 kΩ or more
L	0 to 1 V	500 Ω or more
N	0 to 5 V	2.5 kΩ or more
P	0 to 10 V	5 kΩ or more

Optional parts (separately sold)

Name	Model No.
Vibration isolation bracket	QN718A

1

DIGITAL
CONTROLLERS

2

RECORDERS,
INDICATORS

3

CONVERTERS

4

FLAME SAFEGUARD
SYSTEM

5

ACTUATORS

6

SENSORS

7

GAS FLOW
MEASUREMENT AND
CONTROL PRODUCTS