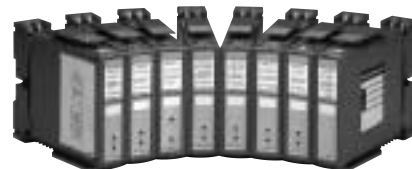


IP50/51

IntellpaK Compact Signal Converters

The IP50/51 are compact, lightweight, high-accuracy signal converters, available in both AC and DC models.

Features include a high-efficiency hybrid IC for high-density applications and high-speed response, suitable for process control of pressure and flow.



CONVERTERS

Specifications

General	Power supply voltage	AC: 100 to 125Vac DC: 24Vdc
	Power consumption	AC: Approx. 4.5 to 5.5VA DC: Approx. 2W
	Starting current	0.11A max. for DC power supply
	Ambient temperature	-5 to 55°C (no condensation allowed)
Operating Conditions	Weight	Approx. 200g (including base socket)
	Accuracy	T/C input: ± 0.4%FS RTD input: ± 0.2%FS Other inputs: ± 0.1%FS
	Temperature drift	±0.15%FS/10°C
	Cold junction compensation accuracy	±1°C (T/C R.W at -5 to +55°C) ± 0.5°C (T/C K.E.J.T at -5 to +55°C)
	Input impedance	1MΩ min. (T/C, V inputs) 50MΩ or 100Ω (current input)
	Burnout	Upscale (at T/C input breakage, or RTD element breakage)
	Allowable load resistance	750Ω max. (for 4 to 20mA output)
	Response time (90% response)	25ms max. (for mV/I converter, DC converter, isolator) 120μs max. (for high speed isolator)

Selection Guide

I II III IV V Example: IP50DBC00A00

Table	Selection	Description
I	Basic Model No.	IP50DBA Signal distributor (Non-isolation)
		IP50DBC Signal distributor (Isolation)
		IP50DCD DC signal converter (Non-isolation)
		IP50DCS DC signal isolator - standard type
		IP50DCE DC signal isolator - high speed type
		IP50TCA T/C signal converter (Non-isolation)
		IP50TCC T/C signal converter (Isolation)
		IP50RDA RTD signal converter (Non-isolation)
		IP50RDC RTD signal converter (Isolation)
		IP50PMA Potentiometer signal converter (Non-isolation)
		IP50PMC Potentiometer signal converter (Isolation)
		IP51VFD DC pulse signal converter
		IP51VFS DC pulse signal converter with dropout function
IP51FVD Pulse DC signal converter		
IP51FZC Pulse isolator		
II	Input type	- (Refer to specification sheet)
III	Output type	- (Refer to specification sheet)
IV	Power supply voltage	1 100/110Vac, 50/60Hz
		5 120Vac, 50/60Hz
		A 100/120Vac, 50/60Hz
		D 24Vdc
V	Standard	00 Basic model number

Dimensions

(unit:mm)

