

This compact plug-in converter (isolator) receives two analog input and outputs a signal in proportion to their sum or difference.

For example, WSP-ADS/SBS can be used for addition of flow rates or the calculation of temperature differences, speed differences, etc.

Features

- ★ Dielectric strength of 2000Vac between input, output and power supply
- ★ Both AC and DC power supply are available
- ★ Long operationg time
- ★ Easy maintenance by plug-in structure
- ★ CE approved

Ordering code WSP-Code Model **ADS** Adder SBS Subtractor Code Output Allowable Load Code **Test Report** 4 to 20mAdc 750Ω or less None Α Code Input Resistance 0 to 1mAdc With Test report Input D 15kΩ or less Accuracy ±1.6% FS 0 to 10mVdc 1ΜΩ 0 to 100mVdc 1ΜΩ 0 to 20mAdc 750Ω or less 0 to 1Vdc 1ΜΩ 1 to 5Vdc $2.5k\Omega$ or more Code **Power Supply** 500Ω or more 13 0 to 5Vdc 1ΜΩ 0 to 1Vdc 100 to 240Vac ±10% 50/60Hz 14 1 to 5Vdc 1ΜΩ Ν 0 to 5Vdc $2.5k\Omega$ or more 24Vdc ±10% 1ΜΩ 100 to 120Vdc ±10% 0 to 10Vdc 0 to 10Vdc $10k\Omega$ or more 1ΜΩ Contact us for other than the above 0 to 50mVdc S 0 to 60mVdc 1ΜΩ Current output 20mA or less Voltage output 10V or less 0 to 1mAdc 50Ω **33** 0 to 10mAdc 50Ω 0 to 16mAdc 50Ω 0 to 20mAdc 50Ω 4 to 20mAdc 50Ω Adder(ADS): K1 = 50 , K2 = 50Contact us for other than the above Subtractor(SBS): K1 = 100, K2 = 100Full Scale Range: * K1, K2 is the factory settings. It can't be changed after shipment. Current input 1mA to 20mA Contact us for other than the above

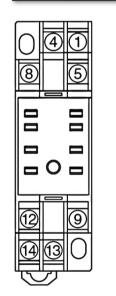
*1···CE approval do not adapt input range code 99 and output range code S.

Specifications

Voltage input 10mV to 10V

Equation	<adder></adder>	
	Output = K1 / 100 x Input1 + K2 / 100 x Input2	
	K1, K2 : Specified in the range of 0-100.0% (standard 50%)	
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	Output = K1 / 100 x Input1 - K2 / 100 x Input2	
	K1, K2 : Specified in the range of 0-100.0% (standard 100%)	
	177, 172. Specified in the range of 0-100.076 (standard 10076)	
Accuracy	±0.1% FS (at 23°C)	
·	*99, S code depends on span	
Response time	Approx. 100ms (0 to 90%)	
Allowable load resistance	Current output	
	15V or less of voltage drop	
	Voltage output	
	Load current 2mA or less	
	For 1V FS or less of output the current is 1mA or less	
Zero & span adjustment	±10% FS (Front switch)	
Operating temperature	-5 to +55°C	
Operating relative humidity	90% or less (non-condensing)	
Temperature coefficient	±0.015% FS of span per °C	
Isolation	Between input, output, and power supply	
Insulation resistance	100MΩ or more with a 500Vdc megger	
	Between input, output, and power supply terminal	
Dielectric strength	2000Vac for 1 minute	
Power consumption	A: 100 to 240Vac ±10% Approx. 5.5VA	
·	D : 24Vdc ±10% Approx. 100mA	
	8 : 100 to 120Vdc ±10% Approx. 25mA	
Power supply variation	±0.1% FS (within the range of rated voltage)	
Dimensions	84(H) X 23(W) X 106.5(D)mm	
Weight	Approx. 150g	
Structure	Plug-in	
Connection	M3 SEMS screw part of the base socket	
Material of terminal screw	Chromated iron	
Case color and material	Ivory, heat-resistant ABS resin(94V-0)	
Applicable Directive	EN61326-1, EN61010-1, EN50581	
	Installation category : II, Pollution degree : 2	
Mounting	DIN rail or wall surface	

Terminal connections



No	Signal	Description	
1	No.1 INPUT(+)	No.1 Input	
4	No.1 INPUT(-)	No.1 Input	
4 No.2 I	No.2 INPUT(-)	No.2 Input	
5	No.2 INPUT(+)		
8	NC	No connection	
9	OUTPUT(+)	Output	
12	OUTPUT(-)	Output	
13	POWER U(+)	Power Supply	
14	POWER V(-)		

* Specification is subject to change without notice