

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 to maintain by plug-in structure
- ★ CE approved, RoHS compliant

Ordering code WSP-Code Model **ADS** Adder **SBS** | Subtractor Code Output Allowable Load Code Test Report 4 to 20mAdc 750Ω or less None Α 0 to 1mAdc Code Input Input Resistance With Test report D $15k\Omega$ or less Accuracy ±1.6% FS 0 to 10mVdc 10 1ΜΩ 0 to 20mAdc 0 to 100mVdc 1ΜΩ G 750Ω or less 1ΜΩ **Power Supply** 12 0 to 1Vdc 1 to 5Vdc $2.5k\Omega$ or more Code 500Ω or more 100 to 240Vac ±10% 50/60Hz 13 0 to 5Vdc 1ΜΩ 0 to 1Vdc 1 to 5Vdc 1ΜΩ 0 to 5Vdc 2.5kΩ or more 24Vdc ±10% 14 Ν 15 0 to 10Vdc 1ΜΩ 0 to 10Vdc 100 to 120Vdc ±10% 10kΩ or more 0 to 50mVdc 1ΜΩ Contact us for other than the above S 1ΜΩ 17 0 to 60mVdc Current output 20mA or less 50Ω 32 0 to 1mAdc Voltage output 10V or less Applicable Directive (89/336/EEC) 0 to 10mAdc 50Ω EMI EN61000-6-4 50Ω 34 0 to 16mAdc EMS EN61000-6-2 35 0 to 20mAdc 50Ω Low voltage directive (73/23/EEC) 4 to 20mAdc 50Ω K1 = 50 , K2 = 50Adder(ADS): EN61010-1

* K1, K2 is the factory settings. It can't be changed after shipment.

Subtractor(SBS): K1 = 100, K2 = 100

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

Specifications

Current input 1mA to 20mA

Voltage input 10mV to 10V

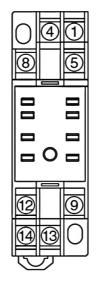
Full Scale Range:

99

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Equation	<adder></adder>	
	Output = K1 / 100 x Input1 + K2 / 100 x Input2	
	K1, K2 : Specified in the range of 0-100.0% (standard 50%)	
	<substractor></substractor>	
	Output = K1 / 100 x Input1 - K2 / 100 x Input2	
	K1, K2 : Specified in the range of 0-100.0% (standard 100%)	
	, ,	
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)	
<u>Dimensions</u>	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)	
Mounting	DIN rail or wall surface	

Terminal connections



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

* Specification is subject to change without notice