

This compact plug-in converter (isolator) receives two analog input and outputs a signal in proportion to their product or quotient.
For example, WSP-MLS/DIS can be used for the calculation of temperature correction of viscosity or density.

Features

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

Ordering code

WSP- [] - [] - []

Code	Model
MLS	Multiplier
DIS	Divider

Code	Input	Input Resistance
10	0 to 10mVdc	1MΩ
11	0 to 100mVdc	1MΩ
12	0 to 1Vdc	1MΩ
13	0 to 5Vdc	1MΩ
14	1 to 5Vdc	1MΩ
15	0 to 10Vdc	1MΩ
16	0 to 50mVdc	1MΩ
17	0 to 60mVdc	1MΩ
32	0 to 1mAdc	50Ω
33	0 to 10mAdc	50Ω
34	0 to 16mAdc	50Ω
35	0 to 20mAdc	50Ω
36	4 to 20mAdc	50Ω
99	Contact us for other than the above	
* 1	Full Scale Range: Current input 1mA to 20mA Voltage input 10mV to 10V	

Code	Output	Allowable Load
A	4 to 20mAdc	750Ω or less
D	0 to 1mAdc Accuracy ±1.6% FS	15kΩ or less
G	0 to 20mAdc	750Ω or less
H	1 to 5Vdc	2.5kΩ or more
L	0 to 1Vdc	500Ω or more
N	0 to 5Vdc	2.5kΩ or more
P	0 to 10Vdc	10kΩ or more
S	Contact us for other than the above	
* 1	Current output 20mA or less Voltage output 10V or less	

Code	Test Report
X	None
T	With Test report

Code	Power Supply
A	100 to 240Vac ±10% 50/60Hz
D	24Vdc ±10%
8	100 to 120Vdc ±10%

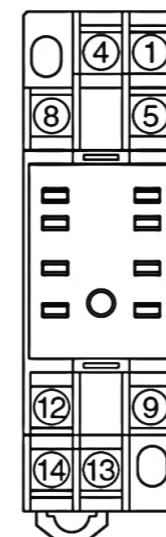
K1 = 100
K2 = 100
* K1, K2 is the factory settings.
It can't be changed after shipment.

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

Specifications

Equation	<p><Multiplier> Output = (K1/100 x Input 1) x (K2/100 x Input 2) K1, K2 : Specified in the range of 0.1-100.0% (standard 100%)</p> <p><Divider> Output = (K2/100 x Input 2) / (K1/100 x Input 1) But, K1/100 x Input 1 > K2/100 x Input 2 K1, K2 : Specified in the range of 0.1-100.0% (standard 100%)</p>
Accuracy	<p>Multiplier : ±0.1% FS (at 23°C) Divider : ±0.2% FS (at 23°C) *99, S code depends on span</p>
Response time	Approx. 100ms (0 to 90%)
Allowable load resistance	<p>Current output 15V or less of voltage drop</p> <p>Voltage output Load current 2mA or less For 1V FS or less of output the current is 1mA or less</p>
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	<p>A : 100 to 240Vac ±10% Approx. 5.5VA D : 24Vdc ±10% Approx. 100mA 8 : 100 to 120Vdc ±10% Approx. 25mA</p>
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.2 INPUT(-)	
5	No.2 INPUT(+)	No.2 Input
8	NC	
9	OUTPUT(+)	Output
12	OUTPUT(-)	
13	POWER U(+)	Power Supply
14	POWER V(-)	

* Specification is subject to change without notice