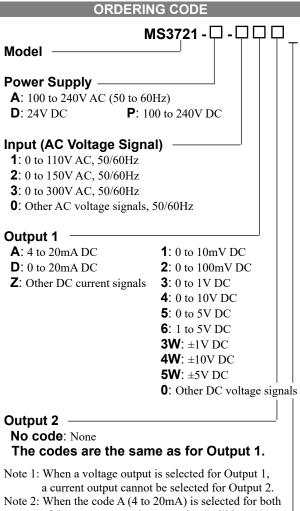


The MS3721 is a slim, plug-in PT transmitter that calculates the rms values of AC voltage signals from a PT, converts them into commonly used DC signals, and provides isolated single or dual output.

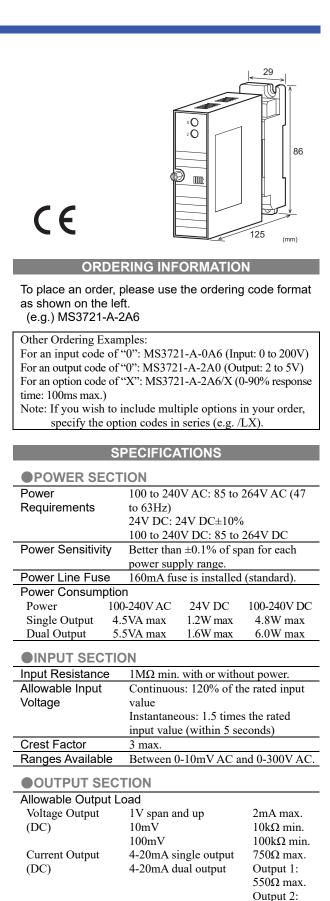


Note 2: When the code A (4 to 20mA) is selected for both of the two outputs, the output load will be  $550\Omega$ maximum for Output 1 and  $350\Omega$  maximum for Output 2.

#### Options

### No code: None

- /L: Dual current output with high output load \* Not subject to CE approval. (OUT-1: 750Ω / OUT-2: 550Ω)
- **/H**: Polyurethane conformal coating
- **/X**: Others (Special order)
- \* For non-standard options, ask MTT for availability.



MS3700

 $350\Omega$  max.

Zero Adjustment	Approx. $\pm 5\%$ of span.			
	(Adjustable by the front-accessible			
	trimmer.)			
Span Adjustment	Approx. $\pm 5\%$ of span.			
	(Adjustable by the front-accessible			
	trimmer.)			
Ranges Available				
Output Dance (DC)	Current Signal Voltage Signal 0 to 20mA -10 to 10V			
Output Range (DC) Output Span (DC)	4 to 20mA 10mV to 20V			
Output Span (DC) Output Bias	0 to 100% -100 to 100%			
Note: For current output signals, the accuracy of any current output smaller than 0.1mA is not guaranteed.				
	For 4 to 20mA output, the output span is			
	6mA and the bias $+25%$ .			
Output Spec. Ex. 2: ]	For -1 to 4V output, the output span is			
5V and the bias -20%.				
PERFORMAN				
Accuracy Rating	Better than $\pm 0.25\%$ of span with at			
Tanan anatuna	least 10% input (at $25^{\circ}C\pm 5^{\circ}C$ ).			
Temperature	Better than $\pm 0.2\%$ of span per 10°C			
Effect	change in ambient.			
Response Time	400ms max. (0 to 90%) with a step input at 100%.			
CMRR	100dB min. (500V AC, 50/60Hz)			
Isolation	4-way isolation between input, output			
1301211011	1, output 2, and power.			
Insulation	$100M\Omega$ min. (@ 500V DC) between			
Resistance	input, output 1, output 2, power, and			
	ground.			
Dielectric	Input / [Output 1, Output 2] / [Power,			
Strength	Ground]: 2000V AC for 1 minute			
-	(Cutoff current: 0.5mA)			
	Power / Ground: 2000V AC for 1			
	minute (Cutoff current: 5mA)			
	Output 1 / Output 2: 500V AC for 1			
	minute (Cutoff current: 0.5mA)			
Surge Withstand	Tested as per ANSI/IEEE			
Capability	C37.90.1-1989.			
Operating	Ambient temperature: -5 to 55°C			
Environment	Humidity: 5 to 90% RH			
01	(non-condensing)			
Storage	-10 to 60°C			
Temperature				
PHYSICAL				
Installation	Wall/DIN rail mounting			
Wiring	M3.5 screw terminal connection			
	(with a power terminal block cover &			
	drop-proof screws)			
Screwing Torque	0.8 to 1.0 [Nm] * Recommended			
External	W29 × H86 × D125 mm			
Dimensions	(including the mounting screw and			
	socket)			
\//aialat	NC : 100			

Main unit: 120g max. Socket: 80g max.

MATERIAL	
Housing	ABS resin (UL 94V-0)
Terminal Block	PBT resin (UL 94V-0)
Terminal Block	PC resin (UL 94V-2)
Cover	
DIN Rail Stopper	PP resin (UL 94HB)
Screw Terminal	Nickel-plated steel
Contacts Material	Brass with 0.2µm gold plating
and Finish	
Printed Circuit	Glass fabric, epoxy resin
Board	(FR-4: UL 94V-0)

# STANDARDS CONFORMITY

• • • • • • • • • • • • • • • • • • • •		
EMC Directive (2014/30/EU)		
EN61326-1:2013		
Low Voltage Directive (2014/35/EU)		
IEC61010-1		
EN61010-1:2010/A1:2019		
Installation Category II		
Pollution Degree 2		
Maximum operating voltage 300V		
Reinforced insulation between		
[input/output/GND] and power.		

# TERMINAL ASSIGNMENTS

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(1)	P (+)	POWER
2	N (-)	TOWER
1	GND	
4	+ OUTI	PUT 1
(5)	- OUTI	PUT 1
6	N.C.	
	+ OUTI	PUT 2
8	- OUTI	PUT 2
9	N.C.	
(10)	INPUT	L
(11)	INPUT	N

Weight

#### **BLOCK DIAGRAM**

