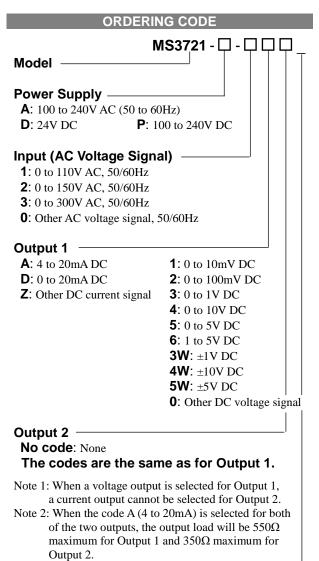


The MS3721 is a slim, plug-in PT transmitter that calculates the rms values of AC voltage signals from a PT, converts them into commonly used DC signals, and provides isolated single or dual output.



Options

No code: None

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

CE @		29 86 125 (mm)
ORDE	RING INFORMATIC	N
as shown on the le (e.g.) MS3721-A-	2A6	g code format
For an output code of For an option code of time: 100ms max.) Note: If you wish to	mples: "0": MS3721-A-0A6 (Ir "0": MS3721-A-2A0 (O ""X": MS3721-A-2A6/X (include multiple options tion codes in series (e.g.	utput: 2 to 5V) (0-90% response in your order,
S	PECIFICATIONS	
POWER SEC		
Power Requirements	100 to 240V AC: 85 to to 63Hz) 24V DC: 24V DC±109 100 to 240V DC: 85 to	6
Power Sensitivity	Better than ±0.1% of s power supply range.	
Power Line Fuse	160mA fuse is installe	d (standard).
Power Consumption	on 00-240V AC 24V DC	100-240V DC
	.5VA max 1.2W max	4.8W max
e .	.5VA max 1.6W max	6.0W max
	ON	
Input Resistance	$1M\Omega$ min. with or with	out power.
Allowable Input Voltage	Continuous: 120% of t value Instantaneous: 1.5 time	he rated input
	input value (within 5 s	
Crest Factor	3 max.	
Ranges Available	Between 0-10mV AC	and 0-300V AC.
OUTPUT SEC	TION	
Maximum Output I		
Voltage Output	1V span and up	2mA max.
(DC)	10mV	$10k\Omega$ min.
Current Output	100mV	100kΩ min. 7500 may
Current Output (DC)	4-20mA single output 4-20mA dual output	750Ω max. Output 1:
× -/	r av	550Ω max.
		Output 2:
		350Ω max.

MS3700

Zero Adjustment	Approx. ±5% of span.	
· · · , · · · · ·	(Adjustable by the front-accessible	
	trimmer.)	
Span Adjustment	Approx. ±5% of span.	
	(Adjustable by the front-accessible	
	trimmer.)	
Ranges Available	,	
	Current Signal Voltage Signal	
Output Range (DC)	0 to 20mA -10 to 10V	
Output Span (DC)	4 to 20mA 10mV to 20V	
Output Bias	0 to 100% -100 to 100%	
	signals, the accuracy of any current	
	0.1mA is not guaranteed.	
	For 4 to 20mA output, the output span i	s
	6mA and the bias +25%.	
Output Spec. Ex. 2: 1	For -1 to 4V output, the output span is	
	V and the bias -20%.	
PERFORMAN		
Accuracy Rating	Better than $\pm 0.25\%$ of span with at	
-	least 10% input (at 25°C±5°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	
	[Output 1/Output 2], power, and	
	ground.	
Insulation	$100M\Omega$ min. (@ 500V DC) between	
Resistance	input, output [Output 1/Output 2],	
	power, and ground.	
Dielectric	Input / Output [Output 1/Output 2] /	
Strength	[Power, 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	
	(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 &	¢
<u> </u>	drop-out prevention screws)	
Screwing Torque	0.8 to 1.0 [Nm] * Recommended	
External	$W29 \times H86 \times D125mm$	
Dimensions	(including the mounting screw and	
	socket)	
Weight	Main unit: 120g max.	
	Socket: 80g max	

Socket: 80g max.

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)
Anti-Humidity	HumiSeal [®] 1A27NS (Polyurethane)
Coating	
* II: C1® :	istand tradamark of Chase Comparation

* HumiSeal[®] is a registered trademark of Chase Corporation.

STANDARDS CONFORMITY

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

TERMINAL ASSIGNMENT

\square
806
±45

\bigcirc	P (+) POWER
2	N(-)
\neg	GND
4	+ OUTPUT 1
5	- OUTPUT 1
6	N.C.
\bigcirc	+ OUTPUT 2
8	- OUTPUT 2
9	N.C.
10	L INPUT
(1)	N INPUT

MTT Corporation

BLOCK DIAGRAM

