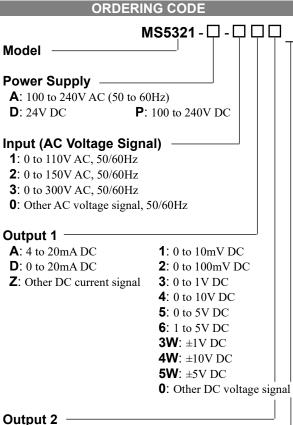


Product Specification SheetModel: MS5321Plug-In PT Transmitter with Isolated Dual Output

DESCRIPTION

The MS5321 is a 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 an isolated dual output.



The codes are the same as for Output 1.

- Note 1: When a voltage output is selected for Output 1, a current output cannot be selected for Output 2.
- Note 2: When the code A (4 to 20mA) is selected for both of the two outputs, the output load will be 550Ω maximum for Output 1 and 350Ω maximum for Output 2.

Options

No code: None

- **/X**: Special order
- * For non-standard options, ask MTT for availability.

ORDERING INFORMATION

To place an order, please use the ordering code format as shown above. (e.g.) MS5321-A-2A6

Other Ordering Examples:

For an input code of "0": MS5321-A-0A6 (Input: 0 to 200V) For an output code of "0": MS5321-A-2A0 (Output: 2 to 5V) For an option code of "X": MS5321-A-2A6/X (0-90% response time: 100ms max.)

51 50 20 145.5 (mm)

SPECIFICATIONS

POWER SECT	ΓΙΟΝ			
Power	100 to 240V AC: 85 to 264V AC (47			
Requirements	to 63Hz)			
	24V DC: 24V DC±10%)		
	100 to 240V DC: 85 to	264V DC		
Power Sensitivity	Better than $\pm 0.1\%$ of sp			
	power supply range.			
Power Line Fuse	160mA fuse			
Maximum Power Consumption				
Power 10	00-240VAC 24V DC	100-240V DC		
	Approx. Approx.	Approx.		
	5.0VA 1.6W	6.0W		
Input Resistance	$1M\Omega$ min. with or with	out power.		
Allowable Input	Continuous: 120% of the rated input			
Current	value			
	Instantaneous: 1.5 times	s the rated		
	input value (within 5 se	conds)		
Crest Factor	3 max.			
Ranges Available	Between 0-10mV AC a	nd 0-300V AC.		
Allowable Output Load				
Voltage Output	1V span and up	2mA max.		
(DC)	10 mV	$10k\Omega$ min.		
	100mV	$100k\Omega$ min.		
Current Output	4-20mA single output	750Ω max.		
(DC)	4-20mA dual output	Output 1:		
	1	550Ω max.		
		Output 2:		
		350Ω max.		
	Approx. $\pm 5\%$ of span.			
∠ero Adjustment	(Adjustable by the front-accessible			
Zero Adjustment		t-accessible		
∠ero Adjustment		t-accessible		
	(Adjustable by the from trimmer.)	t-accessible		
Zero Adjustment	(Adjustable by the from trimmer.) Approx. ±5% of span.			
	(Adjustable by the from trimmer.)			

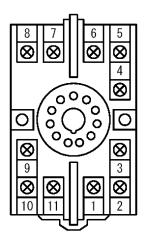
Ranges Available			
	Current Signal	Voltage Signal	
Output Range (DC)	0 to 20mA	-10 to 10V	
Output Span (DC)	4 to 20mA	10mV to 20V	
Output Bias	0 to 100%	-100 to 100%	
* For current output signals, the accuracy of any current			
output smaller than 0.1mA is not guaranteed.			
Output Spec. Ex. 1: For 4 to 20mA output, the output span			
is 16mA and the bias $+25\%$.			
Output Spec. Ex. 2: For -1 to 4V output, the output span is			
5V and the bias -20%.			

PERFORMANCE

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	5-way isolation between input,	
	output 1, output 2, power, and	
	ground.	
Insulation	$100M\Omega$ min. (@ 500V DC) between	
Resistance	input, output 1, output 2, power, and	
<u> </u>	ground.	
Dielectric Strength	Input / [Output 1, Output 2] /	
	[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	
Environment	(non-condensing)	
Storage	-10 to 60°C	
Temperature	10 10 00 0	
PHYSICAL		
Installation	Wall/DIN rail mounting	
Mounting	Vertical	
Orientation		
Screwing Torque	0.78 to 1.18 [Nm] * Recommended	
Wiring	M3.5 screw terminal connection	
External	$W51 \times H85 \times D145.5mm$	
Dimensions	(including the socket)	
Weight	Main unit: 200g max.	
	Socket: 80g max.	
MATERIALS		
Housing	ABS resin (UL 94V-0)	
Socket	ABS resin (UL 94V-0)	
Screw Terminal	Galvanized steel with trivalent	
	chromate finish	
Printed Circuit	Glass fabric epoxy resin	
Board	(FR-4: UL 94V-0)	
Conformal	HumiSeal [®] 1A27NS (Polyurethane)	
Coating		

* HumiSeal® is a registered trademark of Chase Corporation.

TERMINAL ASSIGNMENT



+ OUTPUT 1	
- OUTPUT 1	
N.C.	
N.C.	
L INPUT	
N INPUT	
P (+) POWER	
N (-)	
GND	
+ OUTPUT 2	
- OUTPUT 2	

BLOCK DIAGRAM

