

Product Specification Sheet

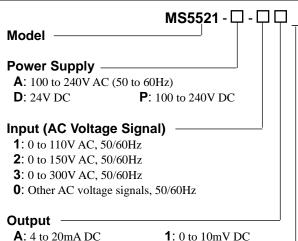
Plug-In PT Transmitter with Isolated Single Output

Model: MS5521

DESCRIPTION

The MS5521 is a plug-in PT transmitter that calculates the rms values of AC current signals from a PT, converts them into commonly used DC signals, and provides an isolated single output.

ORDERING CODE



D: 0 to 20mA DC **Z**: Other DC current signals

1: 0 to 10mV DC

2: 0 to 100mV DC 3: 0 to 1V DC

4: 0 to 10V DC

5: 0 to 5V DC 6: 1 to 5V DC **3W**: ±1V DC

4W: ±10V DC **5W**: ±5V DC

0: Other DC voltage signals

Options

No code: None /X: Special order

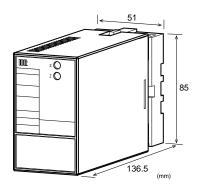
ORDERING INFORMATION

To place an order, please use the ordering code format as shown above.

(e.g.) MS5521-A-16

Other Ordering Examples:

For an input code of "0": MS5521-A-0A (Input: 0 to 200V) For an output code of "0": MS5521-A-20 (Output: 2 to 5V) For an option code of "X": MS5521-A-2A/X (0-90% response time: 100ms max.)



S	PECIFICA	TIONS	
●POWER SECT	ΓΙΟΝ		
Power	100 to 240	V AC: 85 to	264V AC (47
Requirements	to 63Hz)		
•	24V DC: 2	4V DC±10%	6
	100 to 240	V DC: 85 to	264V DC
Power Sensitivity	Better than	±0.1% of s ₁	oan for each
-	power supp	oly range.	•
Power Line Fuse	160mA fus	e	
Maximum Power C	Consumption	1	
Power 10	00-240V AC	24V DC	100-240V DC
	Approx.	Approx.	Approx.
	4.5VA	1.2W	4.8W
Input Resistance		with or with	

●INPUT SECTION	ON
Input Resistance	$1M\Omega$ min. with or without power.
Allowable Input	Continuous: 120% of the rated input
Current	value
	Instantaneous: 1.5 times the rated
	input value (within 5 seconds)
Crest Factor	3 max.
Ranges Available	Between 0-10mV AC and 0-300V AC.

OUTPUT SECTION

Allowable Output Lo	oad	
Voltage Output (DC)	1V span and up	2mA max.
	10mV	$10k\Omega$ min.
	100mV	100 k Ω min.
Current Output (DC)	4 to 20mA	750Ω max.
Zero Adjustment	Approx. ±5% of span.	
	(Adjustable by the front	-accessible
	trimmer.)	
Span Adjustment	Approx. ±5% of span.	
	(Adjustable by the front	-accessible
	trimmer.)	
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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%

^{*} For non-standard options, ask MTT for availability.

PERFORMANCE

Accuracy Rating	Better than ±0.25% of span with at
	least 10% input (at 25°C±5°C).
Temperature	Better than ±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	3-way isolation between input,
	output, and power.
Insulation	$100M\Omega$ min. (@ 500V DC) between
Resistance	input, output, and power.
Dielectric Strength	Input / Output / Power: 2000V 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	
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●PHYSICAL	
Installation	Wall/DIN rail mounting
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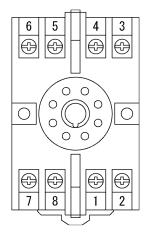
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Installation	Wall/DIN rail mounting
Mounting Direction	Vertical
Screwing Torque	0.78 to 1.18 [Nm] * Recommended
Wiring	M3.5 screw terminal connection
External	$W51 \times H85 \times D136.5 \text{ mm}$
Dimensions	(including the socket)
Weight	Main unit: 200g max.
	Socket: 60g max.

MATERIAL

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® 1A27NSLU
Coating	(Polyurethane)

^{*} HumiSeal® is a registered trademark of Chase Corporation.

TERMINAL ASSIGNMENTS



1	+ OUTPUT
2	- OUTPUT
3	L INPUT
4	N INPUT
(5)	N.C.
6	N.C.
7	P (+) POWER
8	N (-)

