

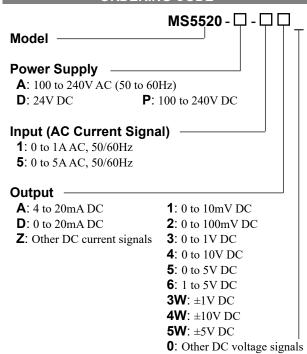
Product Specification Sheet

Plug-In CT Transmitter with Isolated Single Output

DESCRIPTION

The MS5520 is a plug-in CT transmitter that calculates the rms values of AC current signals from a CT, converts them into commonly used DC signals, and provides an isolated single output.

ORDERING CODE



Options

No code: None

/H: Polyurethane conformal coating

/X: Others (Special order)

ORDERING INFORMATION

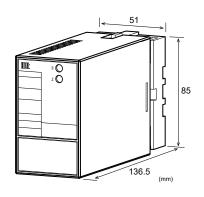
To place an order, please use the ordering code format as shown above.

(e.g.) MS5520-A-56

Other Ordering Examples:

For an output code of "0": MS5520-A-10 (Output: 2 to 5V) For an option code of "X": MS5520-A-1A/X (0-90%

response time: 100ms max.)



Model: MS5520

●POWER SECTION			
Power	100 to 240	V AC: 85 to	264V AC (47
Requirements	to 63Hz)		
	24V DC: 2	4V DC±109	%
	100 to 240	V DC: 85 to	264V DC
Power Sensitivity	Better than ±0.1% of span for each		
·	power sup	ply range.	•
Power Line Fuse	160mA fus	se	
Maximum Power (Consumption		
Power 1	00-240V AC	24V DC	100-240V DC
	Approx.	Approx.	Approx.

4.5VA

INPUT SECTION

UNIFOT SECTION		
Input Resistance	$5AAC$ input: $2m\Omega$ (Shunt resistor)	
	$1AAC$ input: $10m\Omega$ (Shunt resistor)	
Allowable Input	Continuous: 120% of the rated input	
Current	value	
	Instantaneous: 10 times the rated	
	input value (within 3 seconds)	
Crest Factor	3 max.	

1.2W

4.8W

OUTPUT SECT	ΓΙΟΝ	
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. $\pm 5\%$ of sp	an.
	(Adjustable by the	front-accessible
	trimmer.)	
Span Adjustment	Approx. $\pm 5\%$ of sp	an.
	(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 Spair (DC)	7 to 20111A	10111 V 10 20 V
Output Bias	0 to 100%	-100 to 100%
* For current output sig	gnals, 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

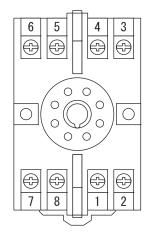
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Accuracy Rating	Better than ±0.25% of span with at	
	least 10% input (at 25°C±5°C).	
Temperature	Better than ±0.2% of span per 10°C	
Effect	change in ambient.	
Response Time	400ms max. (0 to 90%) with a step	
	input at 100%.	
CMRR	100dB min. (500V AC, 50/60Hz)	
Isolation	3-way isolation between input,	
	output, and power.	
Insulation	100MΩ 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		

●PHYSICAL		
Installation	Wall/DIN rail mounting	
Mounting Direction	Vertical	
Screwing Torque	0.78 to 1.18 [Nm] * Recommended	
Wiring	M3.5 screw terminal connection	
	The supplied protector should be	
	connected to the terminal block.	
External	W51 × H85 × D136.5 mm	
Dimensions	(including the socket, but not	
	including the protector)	
Weight	Main unit: 200g max.	
	Socket: 60g max.	
	Protector: 22g 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)

TERMINAL ASSIGNMENTS



1	+ OUTF	PUT
2	- OUTPUT	
3	L INPU	Τ
4	N INPU	Т
5	N.C.	
6	N.C.	
7	P (+)	POWER
8	N (-)	FUVER

BLOCK DIAGRAM

