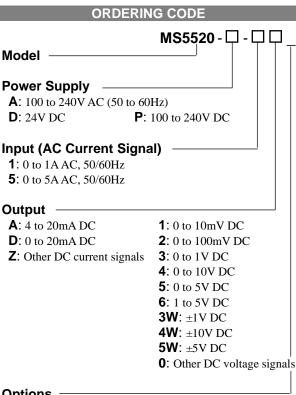


Product Specification Sheet Model: MS5520 Plug-In CT Transmitter with Isolated Single Output

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.



Options

No code: None

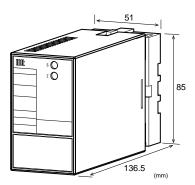
/X: Special order

* 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.) 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.)



SPECIFICATIONS

POWER SECT	ION			
Power	100 to 240V AC: 85 to 264V AC (47			
Requirements	to 63Hz)			
•	24V DC: 24V DC±10%			
	100 to 240	V DC: 85 to	o 264V DC	
Power Sensitivity	Better than $\pm 0.1\%$ of span for each			
	power supp	oly range.	-	
Power Line Fuse	160mA fus			
Maximum Power Consumption				
	0-240V AC	24V DC	100-240V DC	
	Approx.	Approx.	Approx.	
	4.5VA	1.2W	4.8W	
●INPUT SECTION				
Input Resistance	5A AC inp	ut: $2m\Omega$ (Sl	nunt resistor)	
	1A AC inp	ut: 10mΩ (Shunt resistor)	
Allowable Input	Continuous: 120% of the rated input			
Current	value			
		ous: 10 time		
		e (within 3 s	seconds)	
Crest Factor	3 max.			
OUTPUT SEC				
Allowable Output Load				
Voltage Output (DC)	1V span ar	id up	2mA max.	
	10mV		$10k\Omega$ min.	
	100mV		$100k\Omega$ min.	
Current Output (DC)	4 to 20mA		750Ω max.	
Zero Adjustment	Approx. ±5% of span. (Adjustable by the front-accessible			
	-	e by the fro	nt-accessible	
Span Adjustment	trimmer.)	70/ -f		
Span Adjustment	Approx. ±5% of span. (Adjustable by the front-accessible			
	trimmer.)	e by the fro	int-accessible	
Ranges Available	ummer.)			
Nallyes Available	Current S	Signal	Voltage Signal	
Output Range (DC)	0 to 20		-10 to 10V	
Output Range (DC)	4 to 20		10mV to 20V	
Output Bias	0 to 10		-100 to 100%	
	* For current output signals, the accuracy of any current output smaller than 0.1mA is not guaranteed.			
Output smaller than 0.1111A is not guaranteed. Output Spec. Ex. 1: For 4 to 20mA output, the output span				
	s 16mA and			
Output Spec. Ex. 2: For -1 to 4V output, the output span is				
5V and the bias -20%.				

PERFORMANCE

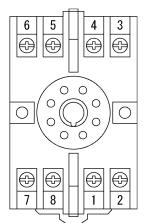
PERFORMANC	, E	
Accuracy Rating	Better than $\pm 0.25\%$ of span with at	
	least 10% input (at 25°C±5°C).	
Temperature	Better than ±0.2% of span per 10°C	
Effect	change in ambient.	
Response Time	400ms max. (0 to 90%) with a step	
	input at 100%.	
CMRR	100dB min. (500V AC, 50/60Hz)	
Isolation	3-way isolation 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		
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	$W51 \times H85 \times D136.5 \text{ mm}$	
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)
Conformal	HumiSeal [®] 1A27NSLU
Coating	(Polyurethane)

* HumiSeal® is a registered trademark of Chase Corporation.

TERMINAL ASSIGNMENTS



\bigcirc	+ OUTPUT
2	– OUTPUT
3	L INPUT
4	N INPUT
5	N.C.
6	N.C.
$\overline{\mathcal{O}}$	P (+) POWER
8	N(-)

BLOCK DIAGRAM

