

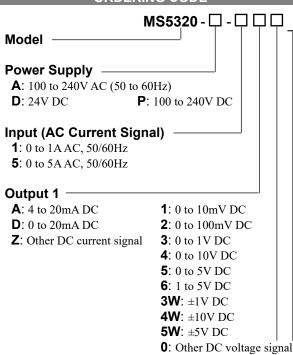
Product Specification Sheet

Plug-In CT Transmitter with Isolated Dual Output

DESCRIPTION

The MS5320 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 dual output.

ORDERING CODE



Output 2

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

ORDERING INFORMATION

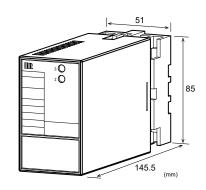
To place an order, please use the ordering code format as shown above.

(e.g.) MS5320-A-5A6

Other Ordering Examples:

For an output code of "0": MS5320-A-160 (Output: 2 to 5V) For an option code of "X": MS5320-A-1AA/X (0-90%

response time: 100ms max.)





Model: MS5320

SPECIFICATIONS

Power	100 to 240V AC: 85 to 264V AC (47		
Requirements	to 63Hz)		
	24V DC: 24	4V DC±10%	ó
	100 to 240	V DC: 85 to	264V DC
Power Sensitivity	Better than	±0.1% of sp	oan for each
	power supp	oly range.	
Power Line Fuse	160mA fus	e	
Maximum Power Consumption			
Power 10	00-240V AC	24V DC	100-240V DC
			A .
	Approx.	Approx.	Approx.
	Approx. 5.0VA	Approx. 1.6W	Approx. 6.0W
AINDUT OF OTH	5.0VA		
●INPUT SECTION	5.0VA		* *

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

OUTPUT SECTION Allowable Output Load

Voltage Output

10mV	$10k\Omega$ min.
	100kΩ min.
100III V	
4-20mA single output	750Ω max.
4-20mA dual output	Output 1:
	550Ω max.
	Output 2:
	350Ω max.
Approx. ±5% of span.	
(Adjustable by the front	-accessible
trimmer.)	
Approx. ±5% of span.	
(Adjustable by the front-accessible	
trimmer.)	
	Approx. ±5% of span. (Adjustable by the front trimmer.) Approx. ±5% of span. (Adjustable by the front

1V span and up

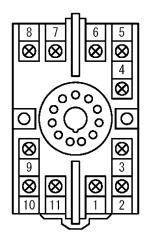
2mA max.

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

Ranges Available Current Signal Voltage Signal Output Range (DC) 0 to 20mA -10 to 10V Output Span (DC) 4 to 20mA 10mV to 20V 0 to 100% **Output Bias** -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 100MΩ min. (@ 500V DC) between Resistance input, output 1, output 2, power, and 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 (non-condensing) Storage -10 to 60°C Temperature PHYSICAL Installation Wall/DIN rail mounting Mounting Vertical Orientation 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 × D145.5mm **Dimensions** (including the socket, but not including the protector) Weight Main unit: 200g max. Socket: 80g max. Protector: 22g max MATERIALS ABS resin (UL 94V-0) Housing ABS resin (UL 94V-0) Socket Screw Terminal Galvanized steel with trivalent chromate finish **Printed Circuit** Glass fabric epoxy resin Board (FR-4: UL 94V-0)

HumiSeal® 1A27NS (Polyurethane)

TERMINAL ASSIGNMENT



1	+ OUTPUT 1		
2	- OUTPUT 1		
3	N.C.		
4	N.C.		
5	L INPUT		
6	N INPUT		
7	P (+)		
8	N (-)		
9	GND		
10	+ OUTPUT 2		
11)	- OUTPUT 2		

Conformal

Coating

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

BLOCK DIAGRAM

