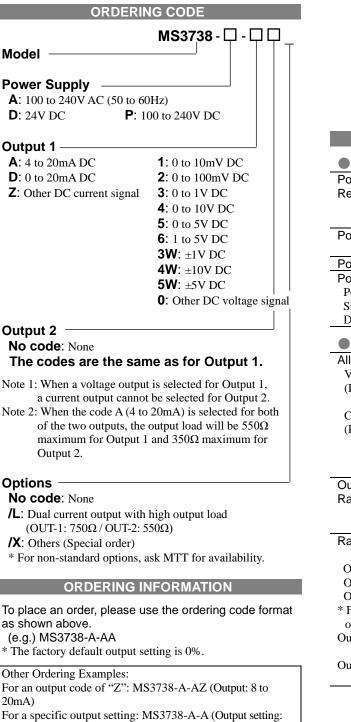


DESCRIPTION

The MS3738 is a slim, plug-in manual setter that allows users to set a desired output value with the front-accessible switches and provides isolated single or dual output.



as shown above.

For an output code of "Z": MS3738-A-AZ (Output: 8 to 20mA)

50%) Note: If you wish to include multiple options in your order, specify the option codes in series (e.g. /LX).

Ro		29 86 125 (mm)			
51	PECIFICATIONS				
POWER SECT Power	100 to 240V AC: 85 to	264V AC (47			
Requirements	to 63Hz) 24V DC: 24V DC±10% 100 to 240V DC: 85 to)			
Power Sensitivity	Better than $\pm 0.1\%$ of sp power supply range.				
Power Line Fuse	160mA fuse is installed	(standard).			
Power Consumption Power 100		100-240V DC 6.0W max			
0 1	5VA max 2.1W max	7.2W max			
OUTPUT SECT					
Allowable Output Lo					
Voltage Output	1V span and up	2mA max.			
(DC)	10mV	$10k\Omega$ min.			
Comment Ordenet	100mV	100kΩ min.			
Current Output (DC)	4-20mA single output 4-20mA dual output	750Ω max. Output 1:			
(DC)	4-2011A duai output	550Ω max.			
		Output 2:			
		350Ω max.			
Output Setting	-10 to +105% (adjustab				
Range	0.1%; in steps of 1% for the range				
	over 100% by the front	-accessible			
Ranges Available	switch.)				
Tranges / Wallable	Current Signal Vo	oltage Signal			
Output Range (DC)		-10 to 10V			
Output Span (DC)		10mV to 20V			
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%.					

MS3700

PERFORMANCE

PERFORMANCE					
Accuracy Rating	Better than $\pm 0.1\%$ of span (at				
	25°C±5°C).				
Temperature	Better than ±0.15% of span per 10°C				
Effect	change in ambient.				
Isolation	Isolation between output 1, output 2,				
	power, and ground.				
Set Value	Red LED, digit height 8.0mm,				
Indicator	3 digits.				
Insulation	$100M\Omega$ min. (@ 500V DC) between				
Resistance	output 1, output 2, power, and ground.				
Dielectric	[Output 1/Output 2] / [Power,				
Strength	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				
Wiring	M3.5 screw terminal connection				
-	(with a power terminal block cover &				
	drop-proof screws)				
Screwing Torque	0.8 to 1.0 [Nm] * Recommended				
External	$W29 \times H86 \times D125mm$				
Dimensions	(including the mounting screw and				
	socket)				
Weight	Main unit: 120g max.				
-	Socket: 80g max.				

MATERIALS	
Housing	ABS resin (UL 94V-0)
Terminal Block	PBT resin (UL 94V-0)
Terminal Block	PC resin (UL 94V-2)
Cover	
DIN Rail Stopper	PP resin (UL 94HB)
Screw Terminal	Nickel-plated steel
Contacts Material	Brass with 0.2µm gold plating
and 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.

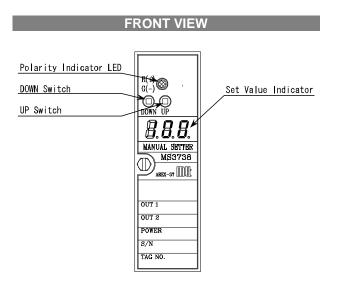
TERMINAL ASSIGNMENT

± 45
$\bigcirc \bigcirc $

(1)	P (+) POWER		
2	N (-)		
Ŧ	GND		
4	+ OUTPUT 1		
5	- OUTPUT 1		
6	N.C.		
	+ OUTPUT 2 - OUTPUT 2		
8			
9	N.C.		
10	N.C.		
11	N.C.		

LED ۵ INDICATOR OUTPUT-1 DIGITAL OPERATION (4) OUTPUT-1 + LED CIRCUIT (ISOLATION SETTING SWITCH CIRCUIT CIRCUIT 2 (CIRCUIT 5) OUTPUT-1 -OUTPUT-2 (7) OUTPUT-2 + POWER P (+) (1 CIRCUIT SOLATION POWER CIRCUIT SUPPLY CIRCUIT (8) OUTPUT-2 -N (-) (2 GND

BLOCK DIAGRAM



SETTING

OUTPUT SETTING

When the power is turned on, the Set Value Indicator shows the current set value. This value can be changed to a desired value by pressing the UP/DOWN switch.

Indicator

The Polarity Indicator LED is red when the set value is positive and green when it is negative. The Set Value Indicator is dimmed if no switch is operated for one minute, while the Polarity Indicator LED keeps illuminating depending on the polarity.

UP/DOWN Switch

The switch is of a push button type. Pressing and holding the switch increases the speed at which the value changes.

Factory Default Setting

If not specified, the output will be set to the factory default of 0%.

LED STATUS INDICATORS

	DICATOR PATTERNS				-
No.	Event	Set Value Indicator (7-segment LED)	Polarity Indicator LED	Output	Recovery Operation
1	Power ON or switch operation	Blinks 3 times (1 s ON - 0.5 s OFF cycle).	Green LED turns ON for 1 second, and then red LED turns ON for 0.5 second. This cycle is repeated 3 times.	Normal	_
2	Normal operation	Dimmed	Red LED is ON when the set value is positive; Green LED is ON when it is negative.	Normal	_
3	Value setting	Set value	Red LED is ON when the set value is positive; Green LED is ON when it is negative.	Normal	_
4	DAC error	Error code: 1	Red LED blinks at 0.25 second intervals.	Typically 0%, but may vary.	None
5	CRC error of a set value	Error code: 2	Red LED blinks at 1 second intervals.	0%	Reconfig- uration
6	CRC error of a compensated value	Error code: 4	Red LED blinks at 1 second intervals.	0%	None
7	System error	Not defined.	Red LED is ON; Green LED is not defined.	Typically 0%, but may vary.	None

Notes:

No. 1: When the Set Value Indicator is turned on, a 3-digit number "888" with dots is displayed.

No. 4 - 7: Only the last digit is displayed in the event of an error.

No. 7: The red LED may fail to light up.

INDICATOD DATTEDNO