

Analogue to Pulse Converter

DESCRIPTION

The BAPC258 is an analogue to pulse conversion module specifically designed to interface to systems requiring pulse inputs. A wide range of process and probe inputs are available with two fully isolated pulse outputs. The output frequency range is factory calibrated for required spans of 10Hz up to 10kHz, with low scale offsetting available. Final calibration may be trimmed using the front accessible zero and span trim adjustments. The level of OUT1 (when ordered as pulse source) is set using a top accessible trim pot close to the power plug. The level of OUT2 (when ordered as pulse source) is set using the front accessible 'AMP' trim pot.



-IN 8

BAPC258

General Specifications

Size:	Size: 23.5W x 71.5H x 109D) (mm)	
Mounting:	Clip for 35mm DIN-Rail.		
Housing material:	ABS.		
Lermination (in/out):	l op mounted screw.		
Termination (power):	2-way plug-able screw.		
Protection class:	IP40.	ac/dc	
Weight:	0.120 kg.		
Calibration accuracy:	<0.2%.	supply	
Front 'SPAN' adjust:	±15% typical.		
Front ZERO adjust:	±10% typical.		
Linearity:	<0.1%.		
Long term drift:	<0.1%.	°C	-
	Typically 0.02% of span per		
Operating temperature:	-10+50 C.	Front Control Co	
		1) AMP - OUT 21	evel adj.
Dulput frequency range.	2 22) adjustable	OUT 1 level ad	lj. is on top
Autout transistor rating:	$3 - 22 \sqrt{a}$ augustable.	edge of case.	(3) PW
Output Bulso Drivo:	$20m\Lambda$ maximum	2) LED - Output II	
Open collector output:	$30V/100m\Delta$	3) PW - Input spa	
EMC compatibility:	AS/NZS 4251 1 CE EN 5008	4) IR - Input zero	o adj.
	A0/N20 4201.1 0E EN 0000	51.1	
Input Options and Connec	tions		
		[A] ±1mV to ±500V.	
The supply c	onnects via a plug that is fitted	Loading 10mV	12kΩ
	age	Loading 500V	1MΩ
		[C] 10mVac to 500Vac	
		Loading 10mV	12kΩ
1 2 Output 1 -ve. 3 4 Output 1 +ve.		Loading 500V	1MΩ
		[E] 1Aac MAX	0.05Ω
Output 2 -ve.		[F] 8Aac MAX	0.01Ω.
		[J] 50mV to 500V true rms	
		Loading 50mV	12kΩ
		Loading 500V	$1M\Omega$
5 +AUX 6 7 +IN -IN 8		Lipearity and drift error:	up to 200% of range $< 0.5\%$ of range
5 4-20 mA loop	transmitters are connected to		< 0.5 % of range
terminal 5 +v	e and terminal 7 -ve.	[L] Resistance 2 wire	<0.5%
7 8 All other sign	al coursed two terminal inputs	Linearity.	<0.5%
	OmA are are connected to	Temperature drift error:	<0.5%.
terminal 7 +v	e and terminal 8 -ve	Input range:	50Ω up to 10kΩ.
[1] 4 - 20 m A	510	Excitation current:	0.6mA max.
Includes 22Vdc @20mA	auxiliary	[M] Thermocouple	
[2] 10 E0mA Input [2]	220	Linearised:	0.2%
	2202.	Cold junction comp.:	0.02% per °C.
[3] 1mA to 100mA.	1KΩ @1mA.	Input offset adjustment:	200% of range.
[4] 1Adc MAX	0.05Ω.	Input range:	$\pm 30\%$. 4mV up to 80mV
[5] 8Adc MAX	0.01Ω.	Input impedance:	> 1MΩ.
[6] 1 - 5V Input	1MΩ.	[N] pH/ORP electrode	
[7] 0 1V to 40Vdc	1MO	Specify sensor and the in	put range.
[8] 40V to 500V do	1MO	Input impedance:	10 ¹² Ω
[0] - 00 (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Linearity and drift error:	< 0.5% of range
		Connection:	BNC.

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[Q] RTD Input range:

Sensor excitation:

350µA.

7Ω up to

230Ω

For 2 wire connection join terminals 5 and 8.



8

2

2



TYPE NO. DESIGNATION

Power Supply:-1 = 10-60Vdc / 16-48V 50/60Hz Input:-1 = 4 – 20mA *) E = 1Aac *) F = 8Aac 2 = 10 - 50mA 3 = 1mA to 100mA. *) J = 50mV up 500V true rms *) 4 = 1Adc *) L = Resistance 2 wire *) 5 = 8Adc M = Thermocouple *) N = pH/ORP electrode. 6 = 1 - 5V Input *) P = Pot 3Wire 7 = 0.1V to 40Vdc*) Q = RTD *) 8 = 40V to 500Vdc *) R = Frequency Inputs *) 9 = 2mV to 100mV *) A = ±1mV to ±500V $\dot{z} = Other.$ *) C = 10mVac to 500Vac Output:-1 = 0 - 50Hz 6 = 0 – 2000Hz. 2 = 0 - 100Hz 7 = 0 - 5000Hz. 3 = 0 - 250Hz 8 = 0 - 10000Hz. 4 = 0 - 500Hz *) 9 = Other - span or live zero eg. 20 - 100Hz 5 = 0 - 1000Hz. (Specify) Action:-1 = Direct. 2 = Reverse. Pulse Type OUT 1:-1 = Sink2 = Sourced 3 – 22V Adjustable, 5V default, specify. Pulse Type OUT 2:-1 = Sourced 3 – 22V Adjustable, 5V default, specify.

2 = Sink.

*) = Price Extra.

In the interest of development and improvement, BASI reserve the right to amend, without notice, details contained in this publication. BASI will accept no legal liability for any errors, omissions or amendments

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