

Model Number
478A01

BATTERY POWERED SIGNAL CONDITIONING FOR CAPACITIVE SENSOR

Revision: F
ECN #: 28806

Supply Voltage		+V	>16	[1]
Current Limited		mA	60 ±10%	[6]
		mA	14-20	[7]
Battery Life		hours	20	[2] [3]
Battery (3 supplied)		V	9	[2]
Power Requirements for External DC Supply:		V	27	
		W	1.5	
DC Offset Adjustment Range:		V	±1.2 ±5%	[4,6]
		V	±0.15	[4,6]
		V	±0.05	[4,6]
		V	±1.6 ±5%	[7]
Voltage Gain			1 : 1	
Frequency Response (±5% voltage gain)		Hz/kHz	DC/>2	
Spectral Noise:	100 mHz	μV/√Hz [dB]	18 [-95]	[5]
	1 Hz	μV/√Hz [dB]	1.4 [-117]	[5]
	10 Hz	μV/√Hz [dB]	0.2 [-134]	[5]
	100 Hz	μV/√Hz [dB]	0.1 [-140]	[5]
	1 kHz	μV/√Hz [dB]	0.1 [-140]	[5]
	10 kHz	μV/√Hz [dB]	0.1 [-140]	[5]
Broadband Noise (100 mHz - 10 kHz)		μV [dB]	8 [-102]	[5]
Connectors:	Input (transducer)	type	4-Pin Jack	
	Output (scope)	type	BNC Jack	
	External Power, Input	type	3.5 mm Jack	
	Charge Connector	type	#722 Switchcraft Jack	
Size: H x W x D		in	4.0 x 2.9 x 2.4	
		[mm]	[101,6 x 73,7 x 61,0]	
Weight (including batteries)		oz [gm]	11.0 [312]	

NOTES:

- [1] Low battery indication at 15.5V.
- [2] Alkaline batteries (typical or compatible).
- [3] Continuous operation.
- [4] Internally selectable.
- [5] Typical value.
- [6] Specifications pertain only to units after serial number 564.
- [7] Specifications pertain only to units prior to serial number ≤563.
- [8] See PCB Declaration of Conformance PS024 for details.

SUPPLIED ACCESSORIES:

None



[8]

In the interest of constant product improvement, we reserve the right to change specifications without notice.

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Drawn	LH	05/16/08	Spec No. 7594
Engineer	CPH	05/12/08J	
Sales	JJM	05/12/08	
Approved	APB	05/13/08	Sheet 1 of 1