

Model Number
485B39

DIGITAL ICP® - USB SIGNAL CONDITIONER

Revision: C
ECN #:

PERFORMANCE

	ENGLISH	SI
Channel Count	2	2
Voltage Range (nominal)	± 10 V pk ¹	± 10 V pk ¹
ADC Resolution	24-bit ²	24-bit ²
Frequency Range (± 5 %)	0.8 Hz to 20.7 kHz	0.8 Hz to 20.7 kHz
Sample Rate	48, 44.1, 32, 22.05, 16, 11.025, 8 kHz	48, 44.1, 32, 22.05, 16, 11.025, 8 kHz
Antialiasing Lowpass Filter (-3dB) at 48 kHz	22.9 kHz ³	22.9 kHz ³
AC High Pass Filter (-3dB)	1 Hz to 0.5 Hz ⁴	1 Hz to 0.5 Hz ⁴
Digital Output Interface	USB class 1 audio	USB class 1 audio

ENVIRONMENTAL

Temperature Range (Operating)	14 °F to +176 °F	-10 °C to +80 °C
Temperature Range (Storage)	-40 °F to +176 °F	-40 °C to +80 °C

ELECTRICAL

Excitation Voltage (to sensor: ± 5 %)	24 V DC	24 V DC
Constant Current Excitation (± 5 %)	4 mA	4 mA
DC Power (USB)	< 500 mW (5 V at 100 mA)	< 500 mW (5 V at 100 mA)
Settling Time	1.5 seconds	1.5 seconds
Electrical Isolation (case)	Grounded	Grounded

MECHANICAL

Housing Material	Stainless steel	Stainless steel
Size (length x width x height)	2.4 in x 1.5 in x 0.7 in	60 mm x 39 mm x 19 mm
Weight	4.4 oz	125 gram
Sensor Inputs	2 BNC jacks	2 BNC jacks
Digital Output	11 in integral USB cable	28 cm integral USB cable
USB Connector	Type A	Type A

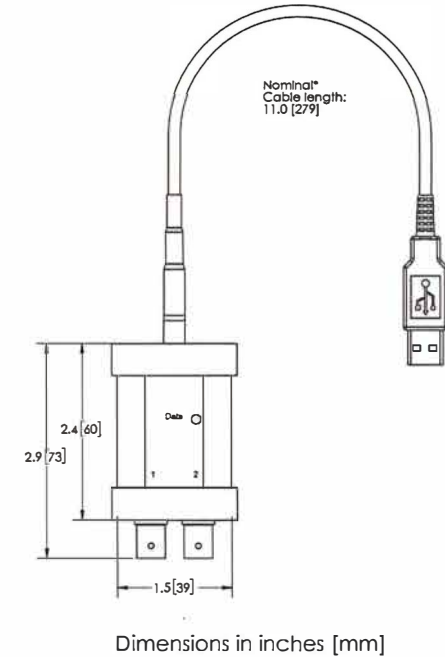
NOTES:

- ¹ ± 8 V pk, guaranteed
- ² 16-bit selectable by software
- ³ Proportional to sample rate
- ⁴ Sample rate dependent (48 kHz to 8 kHz)

OPTIONAL ACCESSORIES:

- MD821AM/A USB A to Lightning camera adaptor
- USB A to USB OTG adaptor

PRODUCT DRAWING



OPTIONAL VERSIONS

- V485B39 – Voltage inputs (no ICP supply current)
- IV485B39 – ICP (CH 1), voltage (CH 2)

In the interest of constant product improvement, specifications may change without notice.



All specifications are at room temperature unless otherwise specified.

Project Engineer: <i>NMA</i>	Product Manager: <i>NAP</i>	Mkt Team Leader: <i>CAO</i>	Spec Number: PS-0149
Date: <i>6/19/19</i>	Date: <i>6/19/19</i>	Date: <i>6/20/19</i>	

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