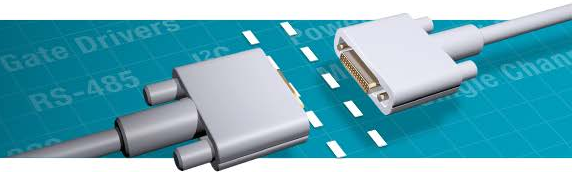
ANALOG DEVICES

Spring 2014

Interface and Isolation Update



New Products

Micropower, Dual-Channel Digital Isolators

iCoupler®

The ADuM124x can be powered by as little as 1 µW of power, delivering power levels over 1000 times lower than optocouplers and competing digital isolators.

- Ultralow power operation
- 3.75 kV rms
- Up to 2 Mbps data rate (NRZ)
- Bidirectional communication
- Multiple channel configurations available
- Default high and default low options available
- High temperature operation: 125°C
- Quad-channel products also available

The ADuM124x is production released with samples available.

Learn More | Data Sheet | Buy Eval Board | Buy Product

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3 kV rms and 5 kV rms Isolated Precision Half Bridge Drivers, 4 A Output for Automotive

iCoupler®

These isolation components provide outstanding performance characteristics superior to the alternatives, such as the combination of pulse transformers and gate drivers.

- Working voltage high-side or low-side relative to input: 565 V peak
- High frequency operation: 1 MHz maximum
- 3.3 V to 5 V CMOS input logic
- 4.5 V to 18 V output driver
- No thermal shutdown
- High common-mode transient immunity: > 25 kV/µs
- Default low output
- High junction temperature operation: 125°C

The ADuM3224 is production released with samples available.

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The ADuM4224 is production released with samples available.

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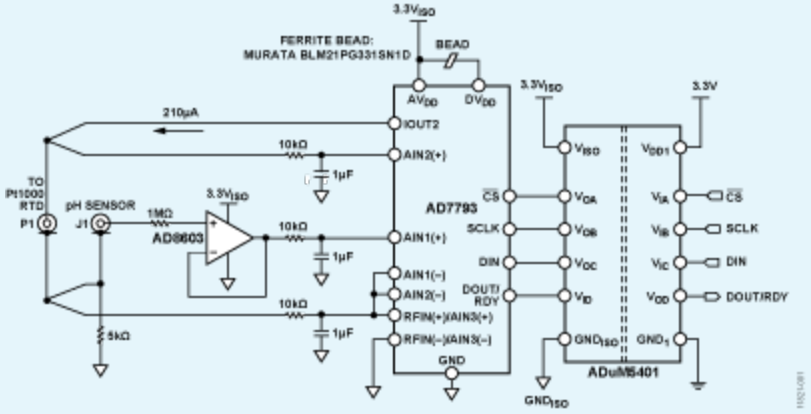
CN0326: Isolated, Low Power pH Monitor with Temperature Compensation

Circuits from the Lab® Reference Designs

This circuit supports a wide variety of pH sensors that have very high internal resistance that can range from 1 MΩ to several GΩ, and digital signal and power isolation provides immunity to noise and transient voltages often encountered in harsh industrial environments.



Read this circuit note and download the design files.

Circuit Note | Explore in Signal Chain Designer

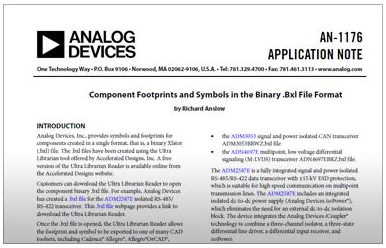
Featured Technical Article

Making Isolation Safety Standards Work for You

Featured Selection Guide

Digital Isolator Product Selection and Resource Guide

Featured Application Note


ANALOG DEVICES
AN-1176
APPLICATION NOTE
Component Footprints and Symbols in the Binary .Bxl File Format
by Richard Anslow
INTRODUCTION

Component Footprints and Symbols in the Binary (.Bxl) File Format

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