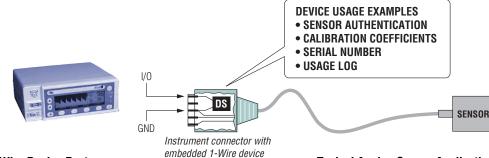
## INDUSTRY'S MOST EFFICIENT SOLUTION FOR EMBEDDING CALIBRATION DATA WITH ANALOG SENSORS

## **1-Wire Interface Reduces Calibration Memory Device Interconnect to Only Two Contacts**

Embed calibration data in the sensor. That is the most expeditious way to achieve high-accuracy measurements with replaceable or disposable analog sensors. When the sensor is attached to the measuring instrument, the data is automatically read and used by the instrument's signal processing software/hardware. Since 1-Wire<sup>®</sup> EEPROM and EPROM devices require only two contacts for the connection, they provide the most efficient solution to these sensor calibration challenges.



Common 1-Wire Device Features:

- Only Two Contacts Required for Device Operation
- Operating Power Derived Entirely from the 1-Wire Line
- Exceptional ESD Performance—DS2430A: IEC 1000-4-2 Level 4
- Designed for Hot/Live System Insertion
- ♦ Wide Operating Range: 2.8V to 5.25V, -40°C to +85°C

N/A

Each Part Uniquely Identified by a Factory-Lasered 64-Bit ROM ID

## Typical Analog Sensor Applications:

Medical

Serial Line Driver

- Temperature, Humidity, Pressure
- ♦ IEEE-P1451.4 Smart Sensors

1-Wire Devices Commonly Used for Analog Sensor Calibration					libration
	Part	Memory Type	Memory Size (Bit)	Additional Features	SMT Packages
	DS2430A	EEPROM	256		6-TSOC, Flip Chip
	DS2431*	EEPROM	1k		6-TSOC, Flip Chip
	DS2432	EEPROM	1k	SHA-1 Security	6-TSOC, Flip Chip
	DS2433	EEPROM	4k		8-SO, Flip Chip
	DS250x	EPROM	1k, 16k, 64k		6-TSOC, 8-SO, CSP

1-Wire is a registered trademark of Dallas Semiconductor. \*Future product—contact factory for availability.

N/A



*FREE* 1-Wire Products Design Guide—*Sent Within 24 Hours!* Includes Sample Request Form

CALL TOLL-FREE 1-800-998-8800 for a Design Guide or Free Sample 6:00 a.m. – 6:00 p.m. Pacific Time





DS2480B





8-S0

2002 EDITION!

FREE FULL-LINE DATA CATALOG

ON CD-ROM

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