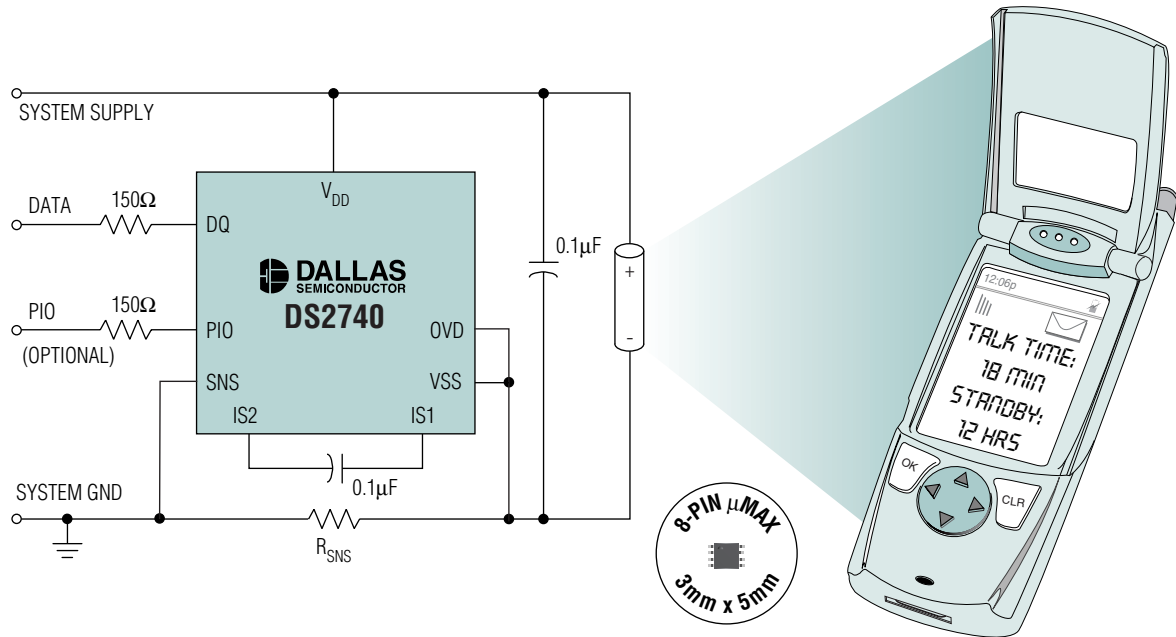


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Low ADC Offset and Gain Error in a Low-Cost Coulomb Counter Provides the Ideal Solution for Portable Runtime Uncertainty



The DS2740's 15-bit current measurement has a resolution of 78μA and a 2.56A dynamic range when used with a 20mΩ sense resistor. An analog input filter extends this dynamic range for pulse-load applications. With a current ADC offset of less than 2μV and a gain error of less than 1%, the DS2740 provides a highly accurate report of remaining battery capacity.

- ◆ **Current Accumulation Has 0.3125mAh Resolution with 20mΩ Sense Resistor**
- ◆ **2μV ADC Offset Error, Typical**
- ◆ **Low Power: <1μA Standby, <65μA Active**
- ◆ **1-Wire® Interface with Unique 64-Bit Serial Number**
- ◆ **Tiny 8-Pin μMAX Package**
- ◆ **Priced at \$0.98†**

†100,000-up recommended direct pricing. Prices provided are for design guidance and are FOB USA. International prices will differ due to local duties, taxes, and exchange rates.

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