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			Linear	CARLSBAD, CA 92009	
			TITLE		
			SPECIFICATIONS, ITIDWA01		
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		CHECKED		DRAWING NO. XXXXX	REV. X
APPLICATION				FILE NAME	SHEET 1 OF 3

ITIDWA01 DOOR/WINDOW SENSOR

1.0 DESCRIPTION

The ITIDWA01 is a low power, microprocessor controlled, transmitter operating at a frequency of 319.508 MHz. Power is supplied by the two lithium type 2032 batteries provided. Battery life is estimated at 4 years under normal conditions. Battery voltage is monitored and "low battery" information is sent with any transmission when the voltage drops below 2.1 V. The ITIDWA01 is compatible with ITI/GE format receivers and consoles.

2.0 OPERATION

The ITIDWA01 is activated by a change in state of an input (reed switch SW2 or other added external switching device). U1 and associated components monitor the battery voltage and switch U1-4 high when a low battery is detected. Battery status is checked with every activation and the low battery bit is set when the voltage drops below 2.1 V. A status timer internal to the microprocessor, activates a transmission approximately once every hour that contains the status of the input and battery condition. To conserve battery life, the PIC microprocessor (U2) is in a sleep mode until activated by an input or the status timer. The microprocessor provides data to transmitter IC U3 which outputs a 319.508 MHz signal to the antenna which is an etched trace on the PCB.

3.0 SPECIFICATION

Product Identification:	ITIDWA01.
Encoding Technique:	ITI/GE format.
RF Carrier Frequency:	319.508 MHz \pm 8 KHz.
Power Requirements:	3 VDC (2 LithiumType 2032 batteries).
Current Draw:	13 mA (average) Transmitting, <1 uA (average) Standby.
Operating Temperature Range:	0° to +50° C.
Size:	2.45" x 1.00 " x 0.375".