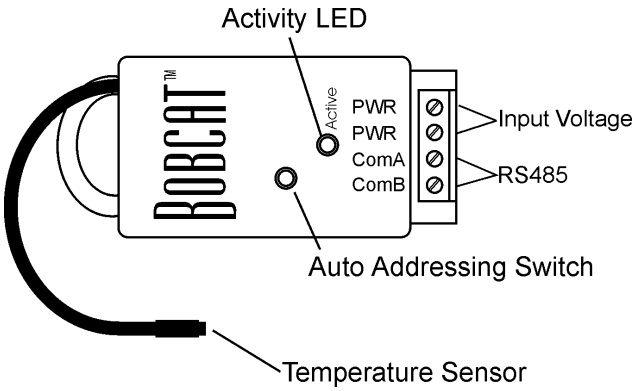
Temperature Bobcat™



Introduction

The Temperature Bobcat™ is a single point module providing temperature readings from -20ºF to 170ºF.

Specifications

Power:	Input Voltage	9 - 12V DC or AC
	Input Current Max	30mA
Dimensions:	1.3”W x 2.5”L x 0.6”D	
	Probe Cable 18”	
Operating Temperature:	Bobcat™ 32ºF to 158ºF	
	Sensor -20ºF - 170ºF	
Resolution:	1ºF ± ½º	

Setup

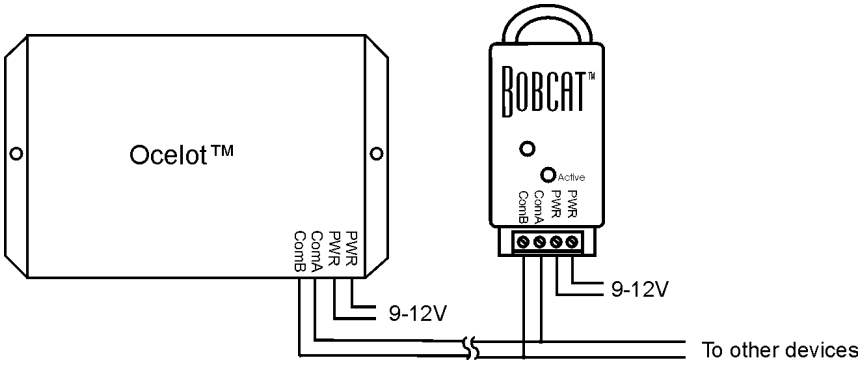


Figure 1. Typical Wiring Diagram

Note: The Bobcat™ may be used outdoors but must be installed in an area so that it will not get wet!

Operation

LED Codes

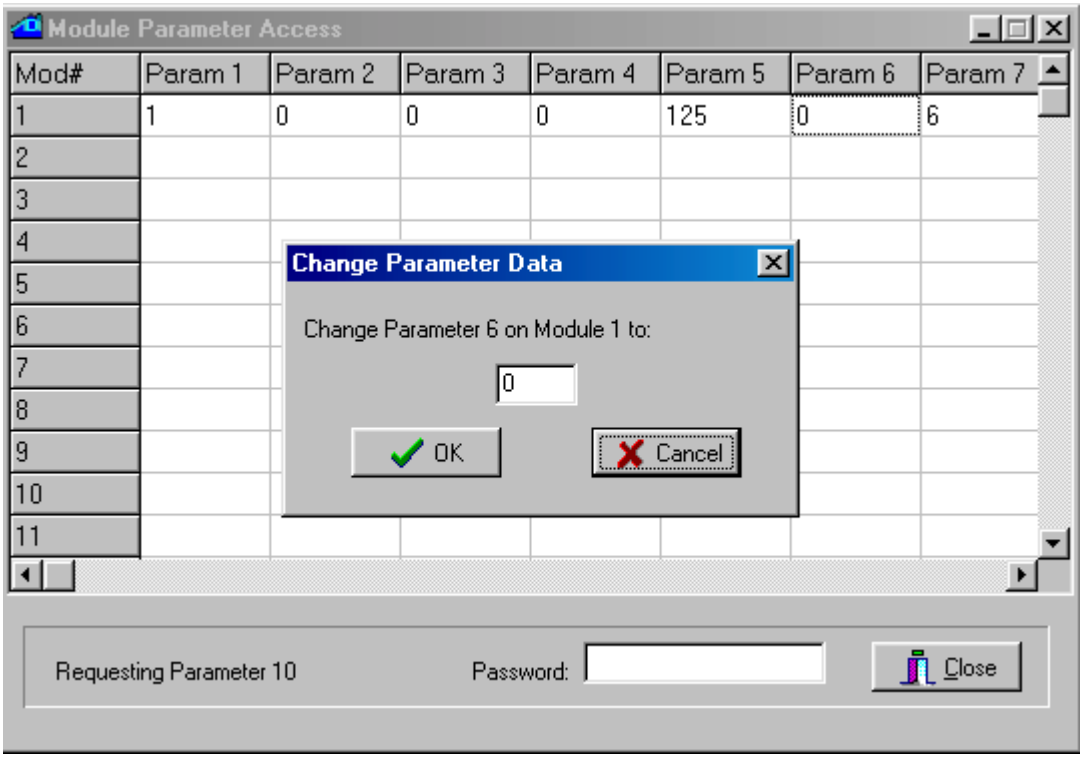
ON solid – Bobcat™ has not been addressed
Slow Blink – Bobcat™ has a valid address
Fast Blink – Auto address mode active
On solid, then Rapid blink - ADICON™ communications active

Parameter	Function
1	Module Address
5	Gain (do not change) – default 128
6	Positive Temperature Offset
7	Negative Temperature Offset

Table 1. Temperature Bobcat™ Parameters

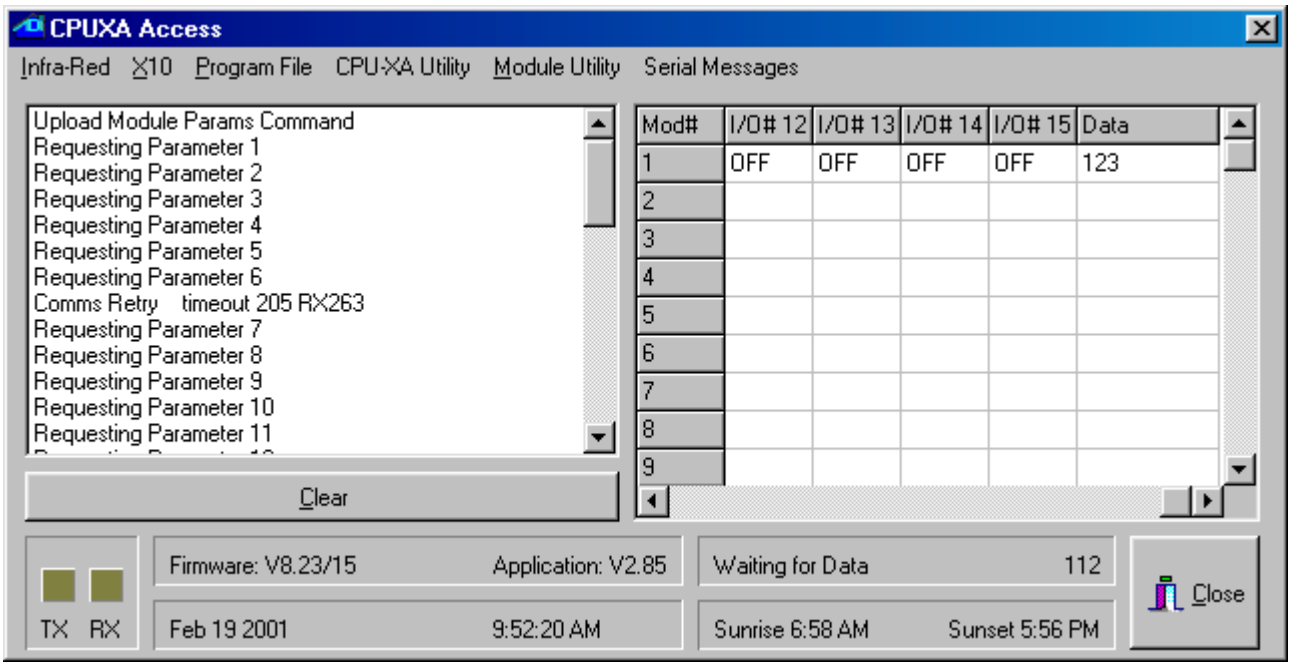
The Temperature Bobcat™ is calibrated at the factory but small temperature adjustments may be made using parameters 6 and 7. Parameter 6 is used to increase the temperature reading by 1/16th of a degree increments and parameter 7 will reduce the reading by 16th of a degree increments. The maximum value for parameters 6 and 7 is 255 or 15.9735 degrees. Either parameter 6 or 7 should be 0. If both are non-zero then the value of parameter 7 will reduce the effect of parameter 6. For example, if parameter 6 is 80 (+ 5 degrees) and parameter 7 is 32(-2 degrees) the temperature reading will only be increased by 3 degrees.

C-Max™ is used to change a parameter value. Below is a sample screen of the Module parameter utility. For more information about changing module parameters see the application note *Changing Module Parameters*.



Viewing Bobcat™ data using C-MAX™

The CPUXA access screen of C-Max™ now has a data field to show the decimal value of data returned by a module. To view the data field, move the horizontal scroll bar all the way to the right. See the sample screen below. Data shown for a Bobcat™ module will be offset by 100, that is, the value shown is 100 greater than the actual data.



Accessing the Bobcat™ data

Following is an example of turning on the air conditioner when the temperature exceeds 80 degrees.