

## Re- DS038.DLL

DS038ReadMe ver 5 Mar 05

This little program was created to make things easy for people using the Mini Motion Detector from [www.hobby-boards.com](http://www.hobby-boards.com).

The Mini Motion Detector is a PIR connected to a 1-Wire DS2405.

If you put the DLL into the same folder as a program you are working on, or into C:\Windows\System, then the program you are working on can “read” the state of the PIR (or any other input to a DS2405, for that matter).

I am writing this mostly in Delphi terms, but the DLL can be called from any language which can call any DLL.

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The DLL has two functions in it:

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**ssDS038Version** simply reports the version of the DLL you have. You pass no parameters. It returns a shortstring.

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**ReadDS2405** is the reason for the DLL.

A typical call would be:

```
iOnOff:=ReadDS2405(1,5, 42000000262DEA05,0);
```

That would return 0 or 1 if all was well, 0 if input to DS2405 was in one state, 1 otherwise. If it returned something other than 0 or 1, what it returned would be an error code, to help you find what is wrong.

The first two parameters tell the DLL what port your adapter is on, and what type of adapter you are using:

Adapter types...

1:DS9097 with no suffix, 9097E

5:DS9097U, 9097U-9

6:DS9490 (USB).. if using a USB adapter, the right number for what port the adapter is on is not clear... on my system using 1 worked.

The long number (' 42000000262DEA05') is the DS2405's unique Dallas ID, sometimes called it's “ROM” code. NOTE: YOU CANNOT use the number given here unless you are using my DS2405! The splendid iButtonViewer will report your chip's ID.

The last number I'm keeping close to my chest, and I would ask you to do so too for me. I am tired of releasing freeware and getting no feedback. As soon as you get a chance, send me an email saying “Please tell me about the last parameter of ReadDS2405. I will gladly send you that, free, as long as you promise to keep the information to yourself. You can find my current address via....

In Delphi, you just put the following in your program in the interface section. When you've done that, you can then use the functions as if they were part of your own code.

In other languages, please go the web for “How do I call things from inside a DLL?”

```
function ReadDS2405(iDMLPortNum,iDMLAdapterType:integer;  
    pcChip:pchar;  
    bErrLevel:byte):integer;  
    stdcall external 'DS038.DLL';  
  
function ssDS038Version:shortstring;stdcall external 'DS038.DLL';
```

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In the Zip:

DD038.DLL- The main reason for downloading the zip.

Misc DD038Demo files: If you use Delphi, you may find these interesting. If you edit the chip ID, and possibly the adapter type and port values, and then run DD038Demo, you will be able to read your DS2405.

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I hope you find the DLL useful!

Tom Boyd

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For more on 1-Wire:

<http://www.arunet.co.uk/tkboyd/eldidx.htm>

For help with Delphi programming:

<http://sheepdogguides.com/tut.htm>

For freeware and shareware from Sheepdog Software(tm):

<http://www.arunet.co.uk/tkboyd/offers.htm>