

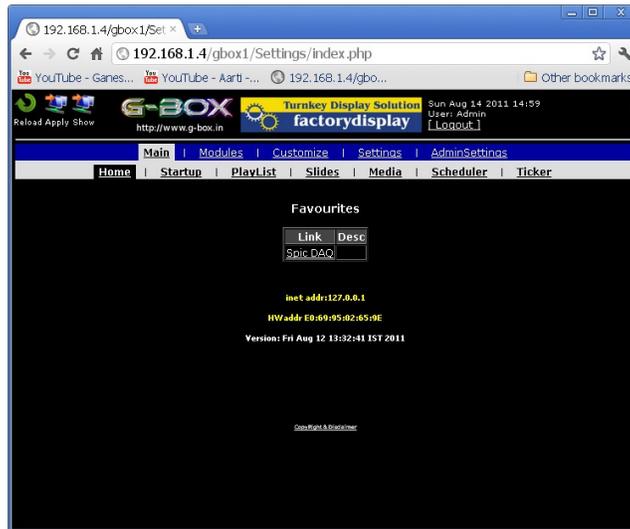


User Manual for 16 input ADC DAQ Module.

# G-Box GTrack System.

## Introduction:

The ADC DAQ module allows you to capture data from upto 16 Analog sources, log and display them.



**Basics:** You can login to the G-Box using “manager” as Pin.

Once you have setup the IP address of Gbox using Setting → Network section you can access Gbox from your lan by entering the Ip address assigned to the G-Box in a web browser (Google Chrome (Recomended), Firefox or IE ). You can login to gbox by connecting a USB Keyboard and mouse to the Gbox and pressing Esc when the starting splash screen is displayed (After Booting).

## Hardware Setup

To connect the hardware follow the block diagram.



Primary IPAddress of Gbox is **192.168.1.4**

Additional IPAddress of Gbox is **10.0.0.99**

IPAddress of ADC is **10.0.0.1**

Gbox uses the 10.0.0.x IP Range to communicate with the ADC.

Primary IP Address of GBox can be changed to suit your Subnet.

But Additional IP should not be changed , if you need that to be changed, then the IP address of the ADC also has to be changed.

## Software Setup.

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Setup Datalogger Values.

Welcome Message:

Tamil Welcome Message:

Rolling Speed:

In	EngLabel	TamLabel	Min	Max	Normal	Override	Error
A0	Eng1	Tam1	100	200			
A1	Eng2	Tam1	100	200	150		
A2	Eng3	Tam1	100	200	150		
A3	Eng4	Tam1	100	200	150		
A4	Eng5	Tam1	100	200	150		
A5	Eng6	Tam1	100	200	150		
A6							
A7							
A8							
A9							
A10							
A11							
A12							
A13							
A14							
A15							

Save

In This screen you can setup English and Tamil welcome messages. Rolling Speed. English and Tamil labels for the ADC Inputs.

**Min** is the Data Value corresponding to 4 ma signal (ex: 100 ppm).

**Max** is the Data Value corresponding to 20 ma signal (ex: 1000 ppm).

**Normal** is the Ideal Data value that is acceptable this is displayed along with the calculated value if specified.

**Override** if specified is the value that will be displayed on the board instead of the calculated value.

**Error** allows you to compensate for any errors in the system.

Only the Inputs for which Tamil and English labels are provided will be displayed on the Scrolling board.

This is the formula used to calculate the value

**AdjustedInput=(ActualInput-4.0)+ErrorAdjustment;**

**CalcValue=(((Max-Min)/(20.0-4.0))\*AdjustedInput)+Min;**

You can download value logs by clicking on "Download Values as CSV" link.

You can download raw (4-20 ma) value logs by clicking on "Download Raw Data as CSV" link.