

# Advantech AE Technical Share Document

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Category	<input checked="" type="checkbox"/> FAQ <input type="checkbox"/> SOP	Related OS	Microsoft Windows7
Abstract	WebAccess monitors ADAM-6060 AuxFlag (internal tag)		
Keyword	ADAM-6060, AuxFlag		
Related Product	N/A		

■ **Problem Description:**

ADAM-6060 is 6-channel DI and 6-channel Relay module. However, it also has 16 AuxFlags. This example will show user how to use WebAccess to monitor AuxFlag

■ **Brief Solution - Step by Step:**

1. Based on ADAM-6000 User Manual, ADAM-6000 module has 16 Internal Flag (AuxFlag).

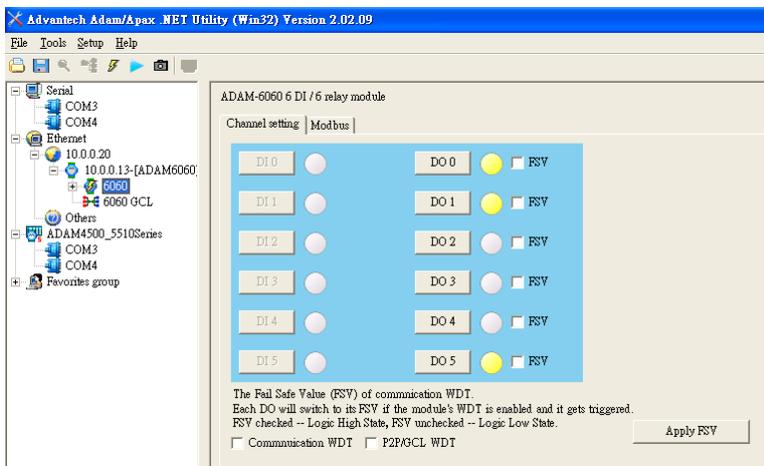
**Internal Flag (AuxFlag)**

There are 16 internal flags on one ADAM-6000 module. The data type of internal flag is digital, meaning its value is either logic **True** or logic **False**. You can read the internal flag value and use it as input condition. After you choose **AuxFlag** as input mode, select appropriate internal flag by the **Index** combo box. (From flag 0 to flag 15) Then you can define the condition by the **Condition** combo box.

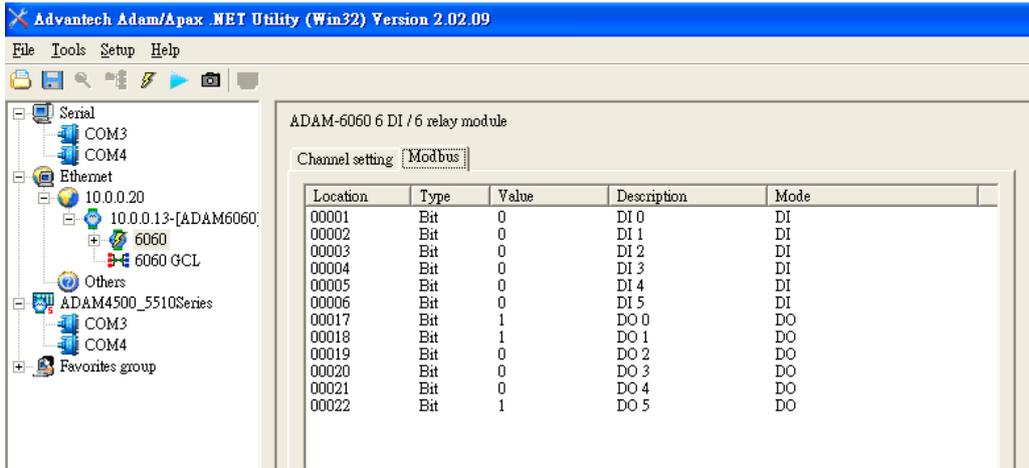
Also, user may get AuxFlag value in Modbus Address 40305.

00042	Start(1)/ Stop(0) Clear Counter(1)	Write	40301	All	DI Value	Read
00043	Clear Overflow <sup>3</sup>	Read	40303	All	DO Value	R/W
00044	DI Latch Status <sup>4</sup>	R/W	40305	0~15	GCL Internal Flag Value <sup>8</sup>	R/W
00045	3 Counter Start(1)/ Stop(0)	R/W				

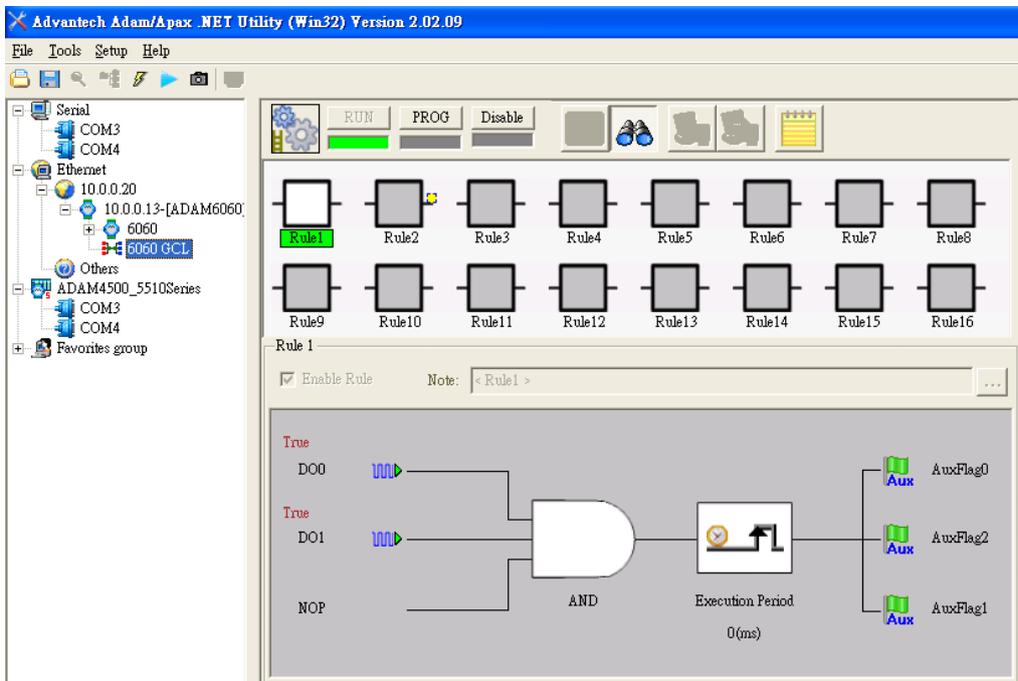
2. First, use ADAM/APAX .Net Utility to detect the ADAM-6060



3. User may also monitor DI and DO values.



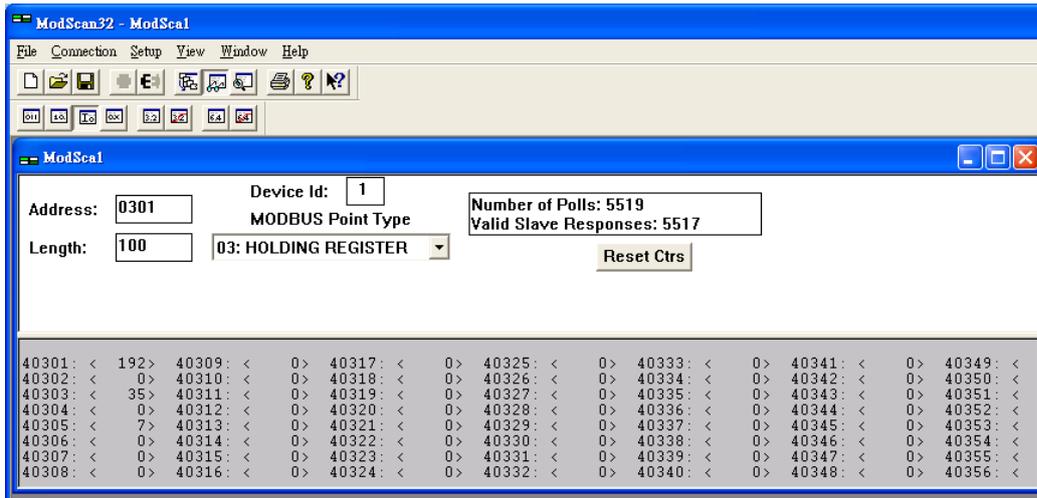
4. In 6060 GCL, we may program a simple Logic to control and monitor AuxFlag 0 to AuxFlag 2.



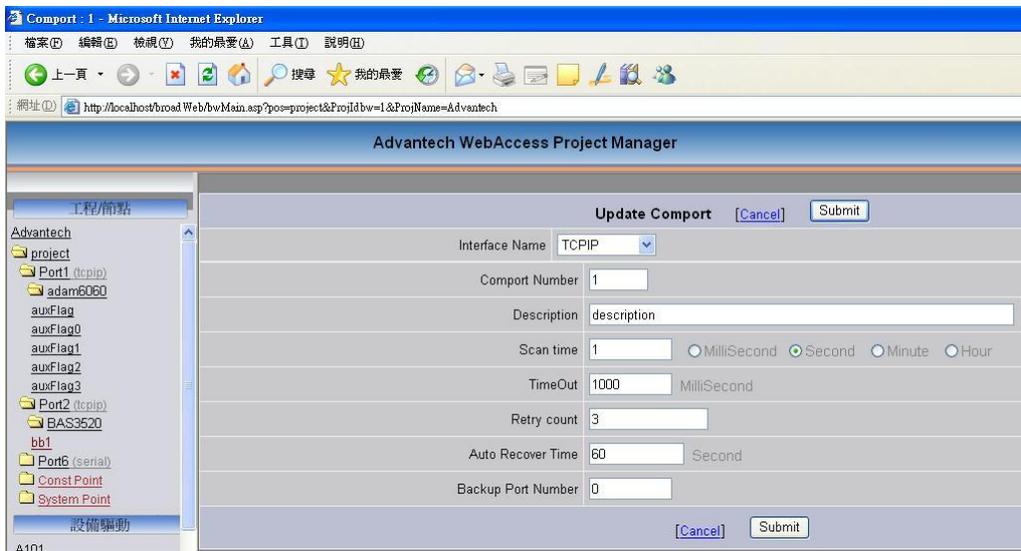
5. Based on previous image, we can tell AugFlag0 to AuxFlag 2 are triggered. To read Modbus Address 40305 value, user may use ModScan to read.

6.	AuxFlag channel	7.	0	8.	1	9.	2	10.	3	11.	4	12.	5	13.	6	14.	...	15.	15
16.	Value	17.	1	18.	2	19.	4	20.	8	21.	16	22.	32	23.	64	24.	...	25.	

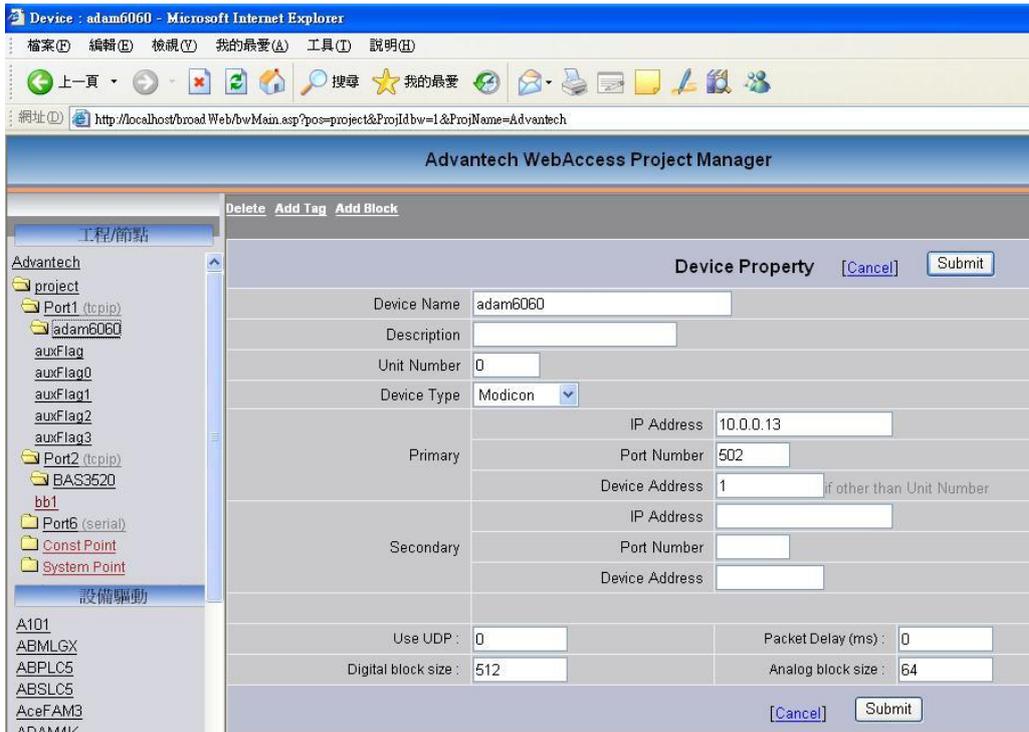
On previous example, AugFlag 0 to AuxFlag 2 are triggered. It means value of 7 (1+2+4=7) will be written in Modbus address 40305



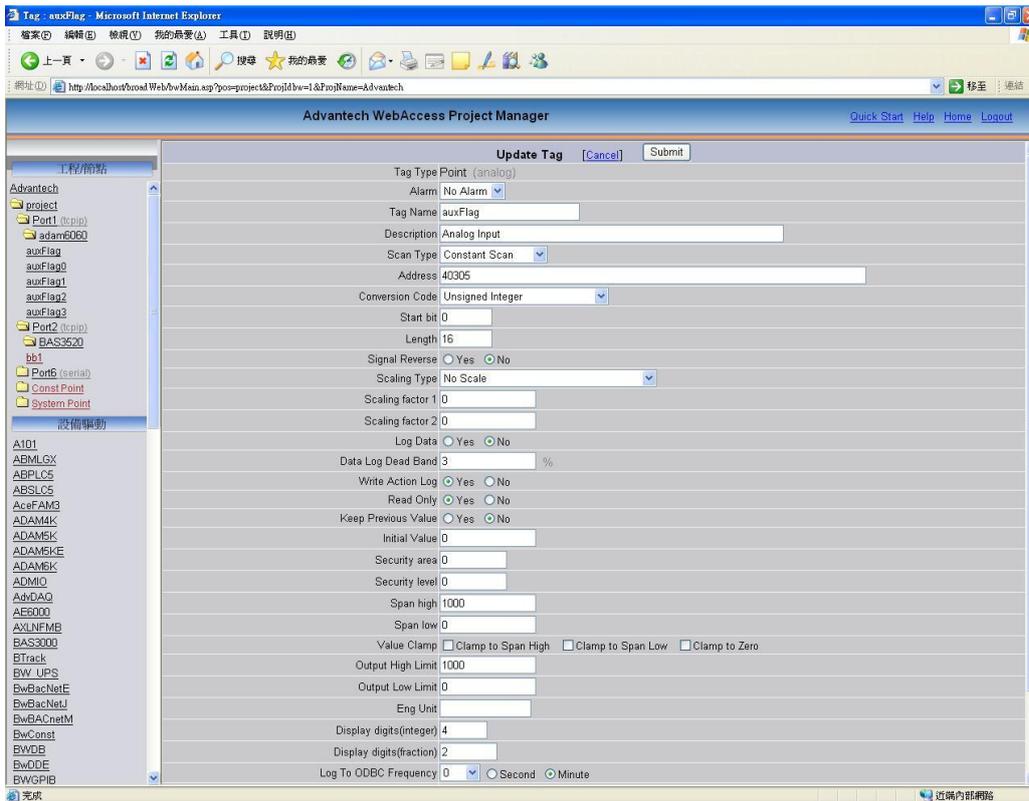
26. To read Modbus Address 40305 in WebAccess  
 In Communication Port, create a “TCP/IP” port



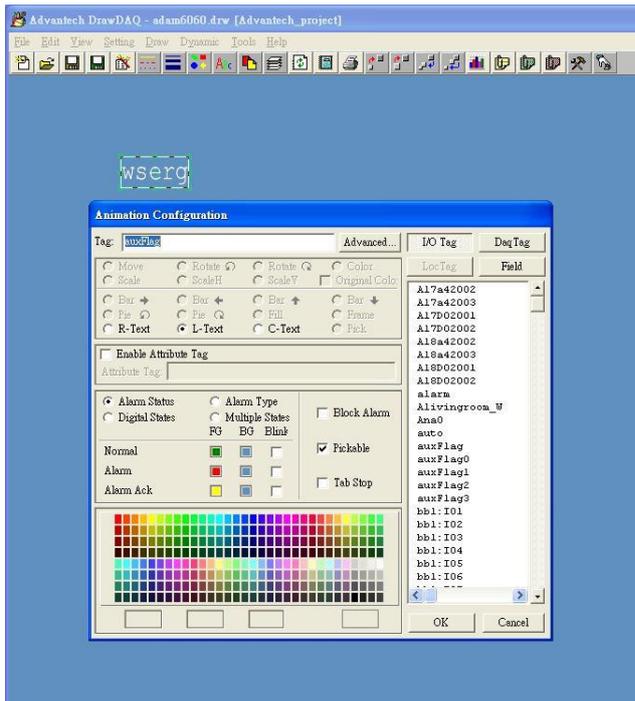
27. In Device, setup “Modicon”  
 IP Address: 10.0.0.13 (based on user’s ADAM-6060 module)  
 Port Number: 502  
 Device Address: 1



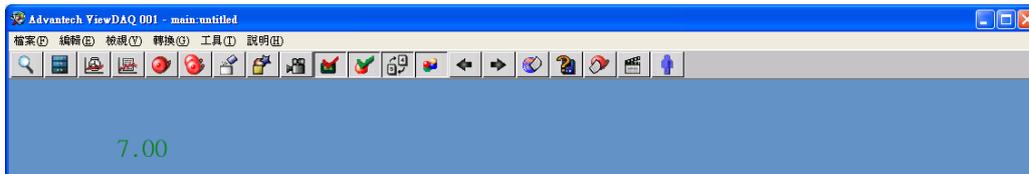
28. Create a Analog Tag and Address is 40305



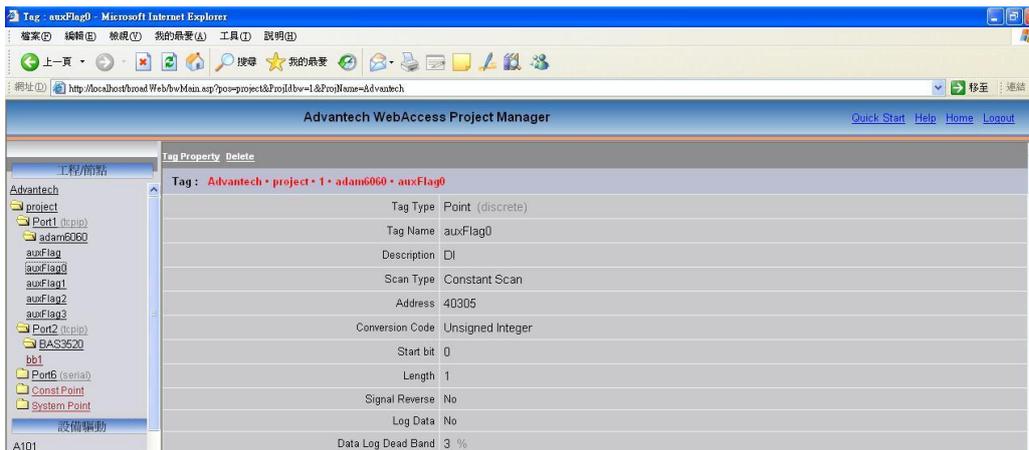
29. Draw a TEXT field to display Modbus 40305 Address.



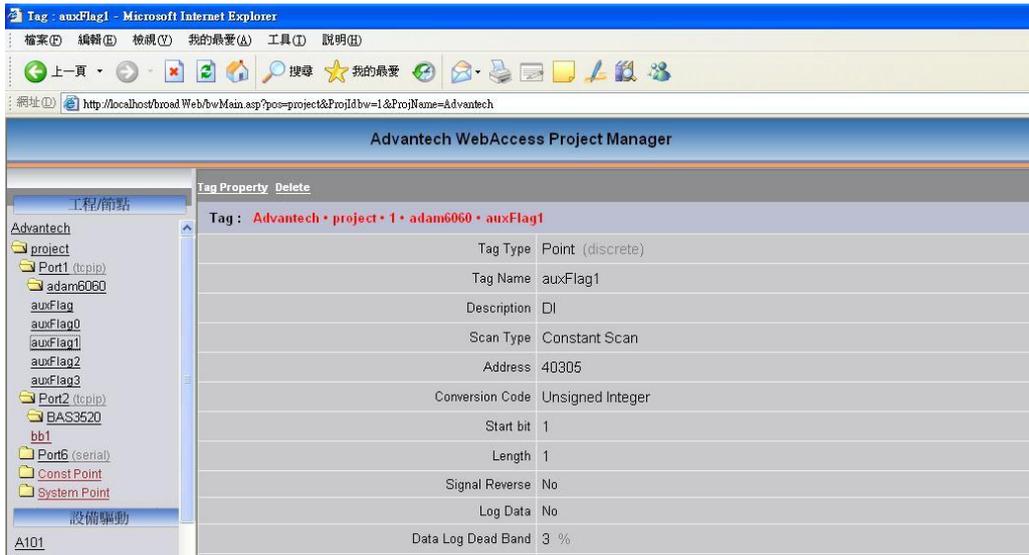
30. Result: it displays 7 in the ViewDAQ.



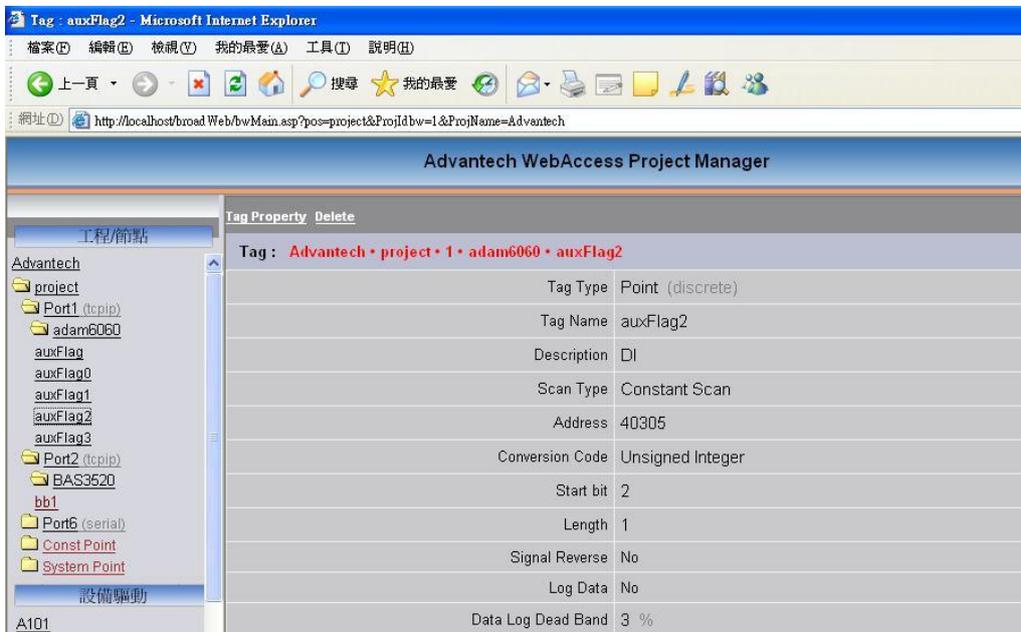
31. To display AuxFlag0, AuxFlag1 and AuxFlag2 separately.  
AuxFlag0 Modbus address is 40305, and Start Bit is 0



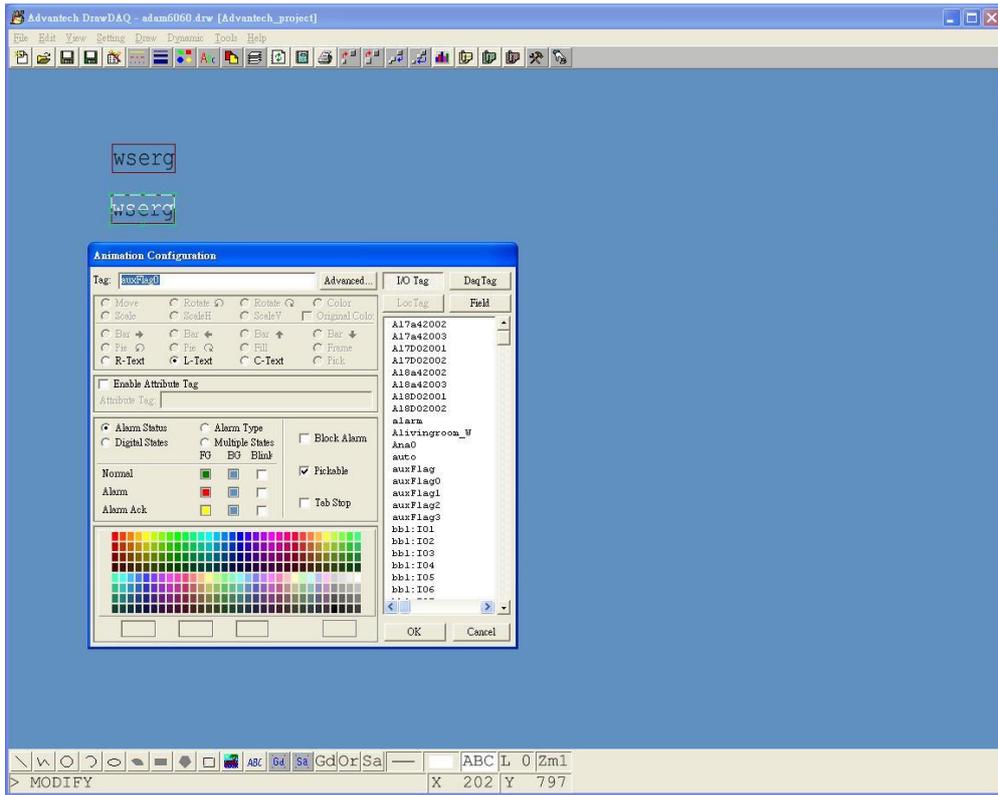
AuxFlag1 Modbus address is 40305, and Start Bit is 1



AuxFlag2 Modbus address is 40305, and Start Bit 2



32. In DrawDAQ Setup, create AuxFlag0, AuxFlag1 and AuxFlag2 for display their values.



### 33. In ViewDAQ

