

The Jumper Settings of FBs-6AD Analogue Input Module

The default factory settings of 6AD analogue input module are

Input code format – Bipolar(-8192~+8191)

Input signal type and range – Bipolar(-10V ~ +10V)

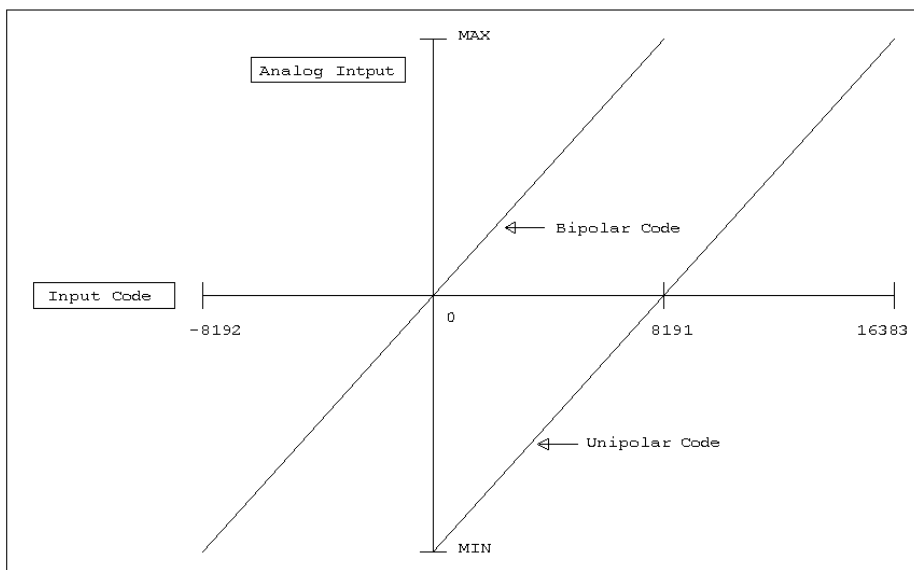
For those applications that require the setting differ than the above default setting should make some modification of jumper position according to following tables

Jumper function and its location

Jumper	Location	Function	Affected CH
JP1	Upper Board	Input code format setting	CH0~CH5
JP2	Lower Board	5/10V full scale setting	CH0~CH5
JP3	Lower Board	Polarity type of input signal	CH0~CH5
JP4	Lower Board	Voltage/Current input setting	CH0
JP5	Lower Board	Voltage/Current input setting	CH1
JP6	Lower Board	Voltage/Current input setting	CH2
JP7	Lower Board	Voltage/Current input setting	CH3
JP8	Lower Board	Voltage/Current input setting	CH4
JP9	Lower Board	Voltage/Current input setting	CH5

Input code format selection – JP1

Jumper position	Min. input code value* ₁	Max. input code value* ₂
B(Bipolar)	-8192	+8191
U(Unipolar)	0	16383



The MAX and MIN value in the vertical axis(analog input) represent the respective maximum and minimal input signal for a specific type. For example, if the input signal range set to $-5V \sim +5V$

*₁ – This value will be obtained when the input signal is $-5V$

*₂ – This value will be obtained when the input signal is $+5V$

The value shown above is the raw 14-bit input value read by CPU, the actual value read by application is depends on the I/O configuration setting(Set by Winproladder software)

Input signal range and polarity setting – JP2,JP3

Jumper Location		Signal source type* ₃	
JP2	JP3	Voltage	Current
5V	B	$-5V \sim +5V$	$-10 \text{ mA} \sim +10 \text{ mA}$
10V	B	$-10V \sim +10V$	$-20 \text{ mA} \sim +20 \text{ mA}$
5V	U	$0V \sim +5V$	$0 \sim +10 \text{ mA}$
10V	U	$0V \sim +10V$	$0 \sim +20 \text{ mA}$

*₃ – Each channel can be individually set for voltage or current type signal.

Current or Voltage type input signal selection- JP4~JP9

Jumper Position	Signal Type
V	Voltage
I	Current

Input Channel	Jumper
CH0	JP4
CH1	JP5
CH2	JP6
CH3	JP7
CH4	JP8
CH5	JP9