I-87005W Hardware User Guide

I-87005W Specification
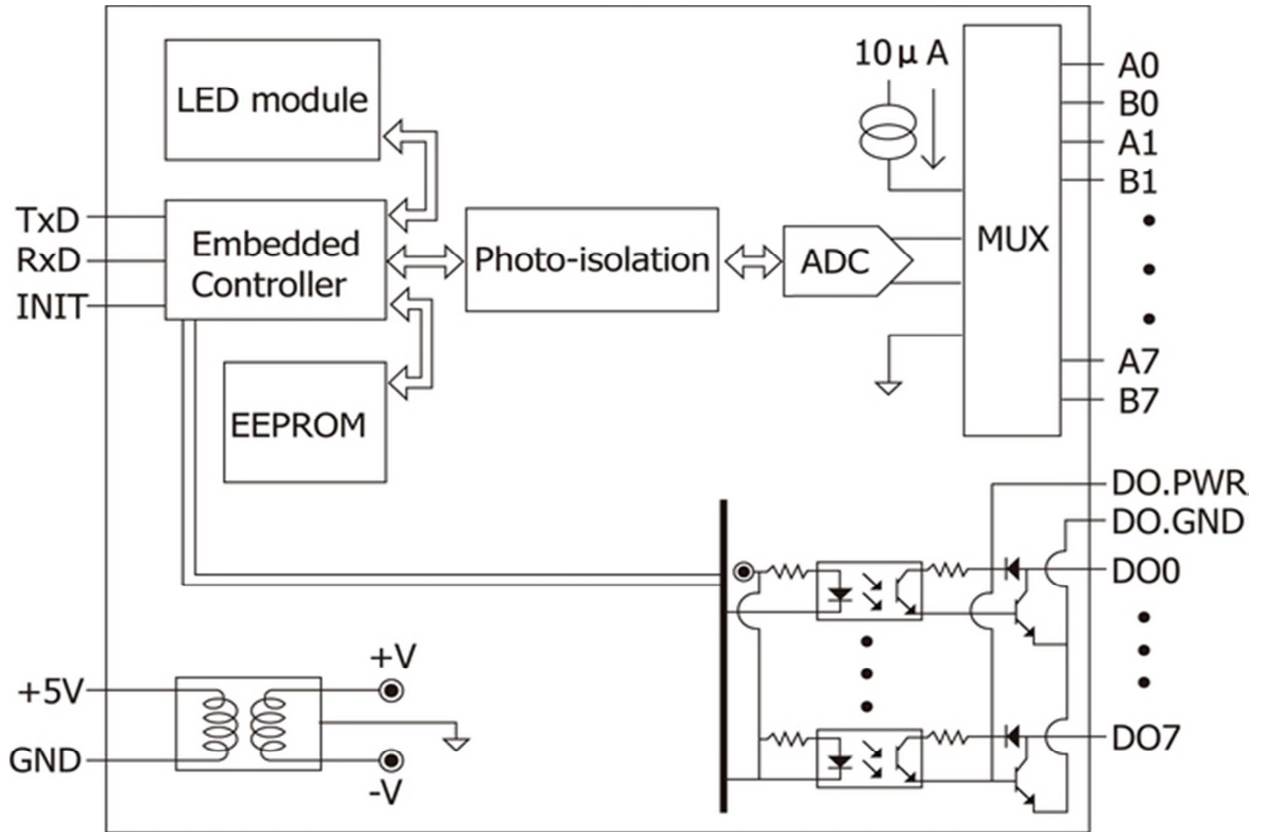
Analog Input	Input Channels	8
	Input Type	Precon ST-A3, Fenwell U, YSI L100, YSI L300, YSI L1000, YSI B2252, YSI B3000, YSI B5000, YSI B6000, YSI B10000, YSI H10000, YSI H30000, User-defined
	Resolution	16-bit
	Sampling Rate	8 samples/sec (total)
	Accuracy	+/- 0.1% of FSR
	-3dB BandWidth	15.7Hz
	Zero drift	+/- 0.5μV/ °C
	Span drift	+/- 25 μV/ °C
	Common Mode Rejection	113 dB
	Normal Mode Rejection	100 dB
	Input Impedance	>1M Ohms
	Overvoltage Protection	120V_{DC}/110V_{AC}
	Intra-module Isolation, Field to Logic	3000V_{DC}
Digital Output	Output Channels	8
	Output Type	Isolated Open-Collector
	Maximum Load Current	700 mA/Channel
	Load Voltage	5 ~ 50 V_{DC}
LED Display	1 LED as Power/Communication indicator	
Power Consumption	Maximum : 1.6W	

I-87005W Pin Assignment
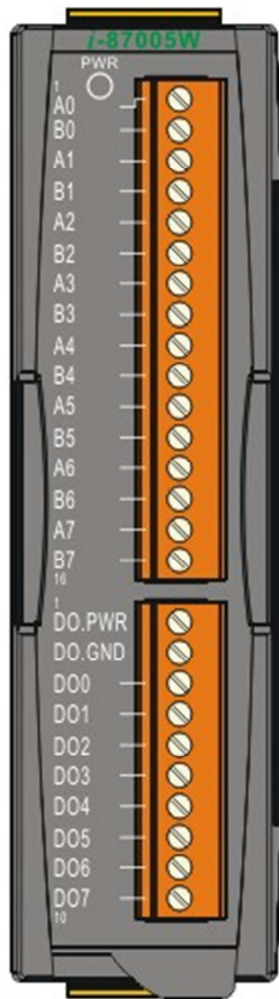
Terminal No.		Pin Assignment
	01	A0
	02	B0
	03	A1
	04	B1
	05	A2
	06	B2
	07	A3
	08	B3
	09	A4
	10	B4
	11	A5
	12	B5
	13	A6
	14	B6
	15	A7
	16	B7
	01	DO.PWR
	02	DO.GND
	03	DO0
	04	DO1
	05	DO2
	06	DO3
	07	DO4
	08	DO5
	09	DO6
	10	DO7

I-87005W Block Diagram

I-87005W Wire Connection

Thermister Input Wiring	Ax Bx
Digital Output Wiring	DO.PWR DO.GND DO0 ... DO7

Screw wire into I-87005W

I-87005W Dimention

71.3
68.3
36.3

102.14
81.08
101.22
53.16
4.05
4.29

111.95
110
67.7
30.5

Unit:mm

High Profile
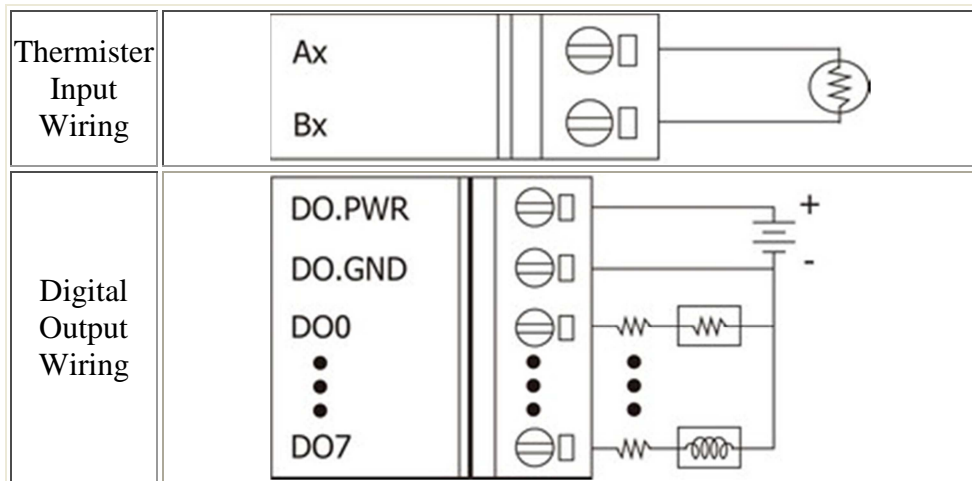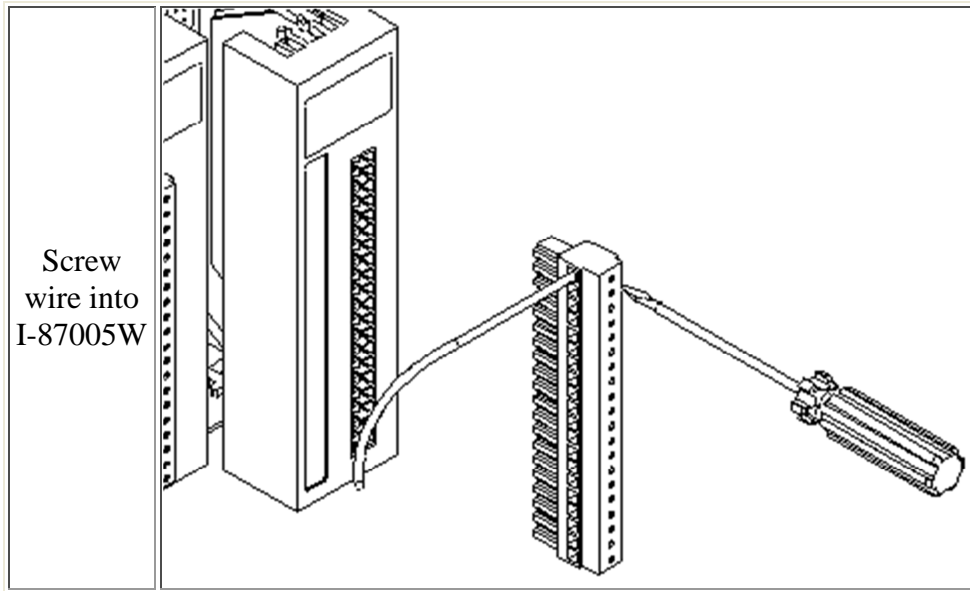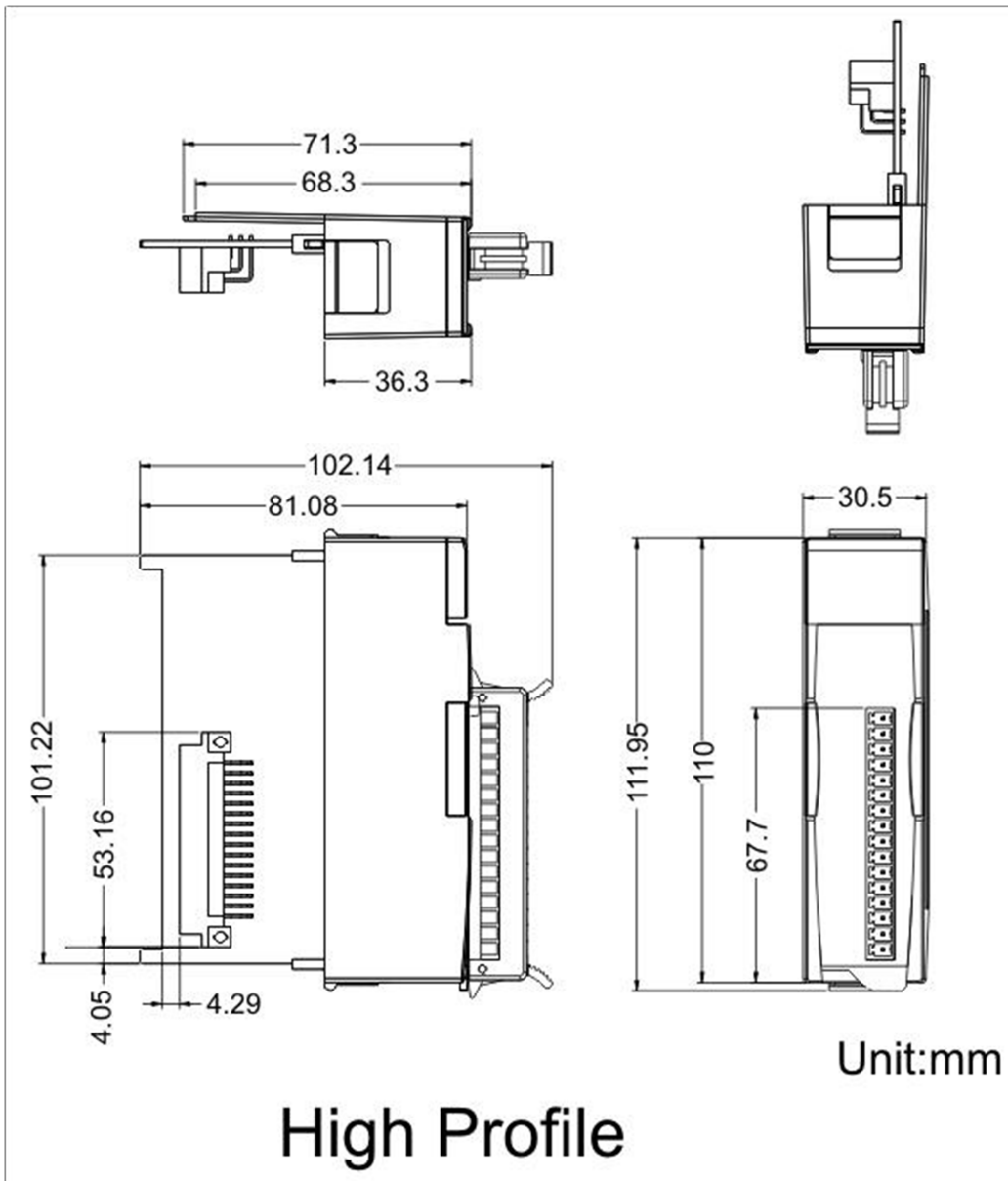
I-87005W Default Setting

Configuration	Default Setting	Description
Type	60	Precon ST-A3
Baudrate	0A	115200 bps
Format	00	60Hz rejection CheckSum disable Engineer Unit Format