

AI-702M/704M/704M2/706M MULTI-CHANNEL INDICATOR

PRODUCT INTRODUCTION

AI series multi-channel indicator suits for measuring, alarm, transmission and communication of multiple physical parameters such as temperature, humidity, pressure, flow, liquid level and etc. Widely used in electric power, chemical, metallurgy, food processing, machinery manufacturing and other fields. Products are designed for 10-year life at least and 3-year free warranty.

FUNCTIONS AND FEATURES

- Programmable modular multiple inputs, thermocouple, RTD, voltage, current, and two-wire transmitter optional with 0.2%FS measuring accuracy. Every channel supports different input specification and freely defined measuring range, decimal position, resolution ratio, digital filtering strength and Other parameters.
- Using high performance component greatly reduces temperature drift and the mutual interference among channels, realizing same accuracy and anti-interference ability as single channel indicator.
- AI-702M, AI-704M/AI-704M2 and AI-706M multi-channel indicators provide 1~2, 1~4, 1~6 channels of measuring, and support internal calculation functions including square root extraction, summation, subtraction and multiplication.
- Support RS485 communication using as lower machine of AIDCS intelligent distributed control system, paperless data logger and touch screen control system. Provide switch signal inputs or outputs to upper machine.
- Up to 2 channels retransmission output when RS485 communication no need. Any input channel can be retransmitted by OUTP port or 6 channels can be cyclically retransmitted. Can be edited as 2 IN 2 OUT transmitter.
- Equipped fixed point/patrol measurement display function and 2 patrol speed selectable.
- Supports E5 DIN rail mounted panel, can be edited directly by handheld display E8.

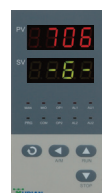
PANEL SIZE



A (size: 96*96mm)



B (size: 160*80mm)



E (size: 48*96mm)



C (size: 80*160mm)



E5 (DIN rail mounted)



F (size: 96*48mm)

MODEL SELECTION AND SPECIFICATIONS

AI- <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>									Specifications
Model	702M								2-channel indicator with alarm, retransmission, communication functions
	704M								1-4 channels indicator with alarm, retransmission, communication functions
	704M2								1-4 channels indicator with alarm, retransmission, communication functions(input signal isolated)
	706M								1-6 channels indicator with alarm, retransmission, communication functions
Panel size	A								96*96*100mm
	B								160*80*100mm
	C								80*160*100mm
	E								48*96*100mm
	E5								48*96*100mm, DIN rail mounted type
	F								96*48*100mm
MIO CHANNEL1(M1)	J0								1 channel three-wire RTD input (or 1 thermocouple + 1 two-wire RTD inputs)
	J1								2 channels thermocouple or mV signal inputs
	J2								2 channels 2-wire RTD inputs
	J3								2 channels 0~3V, 0~5V, 1~5V voltage input
	J31								2 channels 0~10V voltage input
	J4								2 channels current inputs, supports 0~10mA, 4~20mA, 0~20mA current input
	J5								2 channels two-wire transmitter inputs with 24V feed power supply
MIO CHANNEL2(M2)	J0								1 channel three-wire RTD input (or 1 thermocouple + 1 two-wire RTD inputs)
	J1								2 channels thermocouple or mV signal inputs
	J2								2 channels 2-wire RTD inputs
	J3								2 channels 0~3V, 0~5V, 1~5V voltage input
	J31								2 channels 0~10V voltage input
	J4								2 channels current inputs, supports 0~10mA, 4~20mA, 0~20mA current input
	J5								2 channels two-wire transmitter inputs with 24V feed power supply
MIO CHANNEL3(M3)OR MAIN OUTPUT(OUTP)	J0-J5								same as M1
	L0								large volume relay contact output (250VAC/2A) (Chinese brand)
	L2								small volume relay contact output (250VAC/1A) (Omron brand)
	L3								dual channel N/O relay contact output (250VAC/2A) (Chinese brand)
	G								SSR voltage output (12VDC/30mA)
	X3/X5								linear current 4-20mA output (X3occupy internal power supply,X5with isolated power supply)
Alarm (ALM)				L0-L3					same as OUTP
Auxiliary alarm(AUX)				L0-L3					same as OUTP
Communication (COMM)				S4					RS485 communication interface (S4 has own isolate power supply)
				X3/X5					linear current 4-20mA output (X3occupy internal power supply,X5with isolated power supply)

ATTENTION: Input specification for AI-704M2 can only be thermocouple.

MODEL SELECTION

AI-706MAJ1J1J1L3L3S

AI-706M A J1 J1 J1 L3 L3 S
① ② ③ ④ ⑤

- ① Main model for instrument is AI-706M, 1-6 channels indicator with alarm, retransmission, communication functions.
- ② Front panel size is A 96*96mm.
- ③ J1 module in M1, M2, M3 means 6 channels thermocouple input.
- ④ Both ALM and AUX are installed with L3 module which means 4 channels alarm relay output.
- ⑤ S in COMM which means instrument supports RS485 communication.

WIRING DIAGRAM

