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multi-channel large format touch screen display alarm datalogger

Introduction

Al-series multi-channel touch screen display alarm datalogger inherits from Yudian's various famous technologies. It integrates measurement, display, alarm, data logging into one slim instrument. It supports maximum 6 inputs. There are three different size panel, 5-inch, 7-inch and 9-inch. The thickness of 9-inch datalogger is only 38m which can be easily installed in various kinds of equipment. Main parameters are set in one single interface through the newly industrial graded touch screen. Optional monitor and operation can also be done through mobile phones and tablets.

Recommended Application

- Multiple record data nodes
- Depth of installation is limited compared to traditional datalogger
- External HMI is not desirable
- Upgrading from traditional LED display temperature controller

Functions

- Programmable module input, supporting thermocouple, RTD, mV, mA and two-wire transmitter. 0.2% measuring accuracy. Each channel can have independent input specification, with squre-root, multiplication, addition and subtraction. All channels are equipped with digital adjustment and filtering functions. Each channel has individual digital adjustment and filtering parameters. It provides wind speed and atmospheric pressure constant compensation. By inputting dry-wet Pt100 blub, surrounding temperature and humidity can be obtained.
- Decimal place, display resolution, digital filter, input off-set of each input channel can be set. High performance hardware greatly reduces the temperature drift and the interference between various channels so as to increase accuracy and anti-interference as same level of that of single channel one.
- Low power consumption. 36 months warranty on quality. HMI graphic and data logging are process by one ARM chip in dual CPU mode. Individual single chip CPU ensures real time control and sampling, fulfilling strict request on field. Anti-interference test 4KV/5KHz burst of pulses passed.
- Real time trend graph, bar graph and history trend is provided. History record and alarm record can reviewed in the data-logger itself or exported to external USB storage device. The storage size is 150MB.
- There are 5 internal module slots, available for user customization of function modules such as inputs and alarm modules.
- ★ (Below are optional features. Please contact sales representatives. Limited to languages and regions.)
- Embedded web server with ethernet socket providing remote monitoring and operation through WWW browser.
- Extended socket connecting Yudian temperature control instruments, I/O devices, PLC, etc.
- World first introduced P2P cloud feature supporting remote monitoring and operation using mobile phones and tablets without public IP.



5 Inches



7 Inches

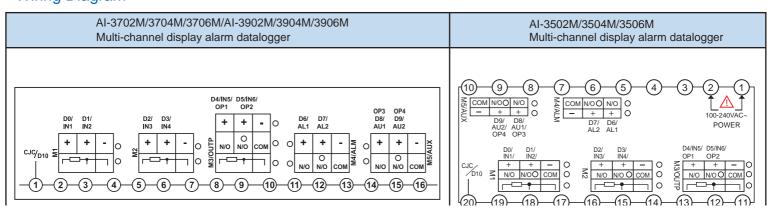




Model Selection and Specifications

AI-								Specifications			
	3502M					5-inch, 0.2% FS accuracy, 2-channels					
Mode	3504M							5-inch, 0.2% FS accuracy, 4-channels			
	3506M							5-inch, 0.2% FS accuracy, 6-channels			
	3702M							7-inch, 0.2% FS accuracy, 2-channels			
	3704M							7-inch, 0.2% FS accuracy, 4-channels			
	3706M						7-inch, 0.2% FS accuracy, 6-channels				
	3902M							9-inch, 0.2% FS accuracy, 2-channels			
	3904M							9-inch, 0.2% FS accuracy, 4-channels			
	3906M		9-inch, 0.2% FS accuracy, 6-channels								
		J0			Input Module (1 x 3-wire RTD or 1 x thermocouple + 1 x 2-wire RTD)						
	nput 1 M1)	J1 Input Module (2 x thermocouple)					Input Module (2 x thermocouple)				
1		J2	2 Input Module (2 x 2-wire RTD)					Input Module (2 x 2-wire RTD)			
		J3						2 Channel Voltage Input Module (0-5V)			
		J4		2 Channel Current Input Module (0-10mA, 4-20mA, 0-20mA)							
		J5						2 Channel Input Module (2 Wire Transmitter, 24VDC Power Supply Incorporated)			
			J0					Input Module (1 x 3-wire RTD or 1 x thermocouple + 1 x 2-wire RTD)			
	J1							Input Module (2 x thermocouple)			
	Input 2		J2					Input Module (2 x 2-wire RTD)			
(M2)			J3					2 Channel Voltage Input Module (0-5V)			
			J4					2 Channel Current Input Module (0-10mA, 4-20mA, 0-20mA)			
			J5					2 Channel Input Module (2 Wire Transmitter, 24VDC Power Supply Incorporated)			
	J			J0				Input Module (1 x 3-wire RTD or 1 x thermocouple + 1 x 2-wire RTD)			
		J1					Input Module (2 x thermocouple)				
				J2				Input Module (2 x 2-wire RTD)			
				J3				2 Channel Voltage Input Module (0-5V)			
				J4				2 Channel Current Input Module (0-10mA, 4-20mA, 0-20mA)			
	nput 3 (M	, .		J5	J5			2 Channel Input Module (2 Wire Transmitter, 24VDC Power Supply Incorporated)			
Output (OUT			'	LO	LO			Relay Output Module 2A / 250VAC			
				L2				Relay Output Module (Omron Relay) 1A / 250VAC			
				L3				Dual Relay Output Module 2A / 250VAC			
				G				Voltage Output Module (For SSR Control) DC 12V / 30mA			
			Х3					High precision photoelectric isolated linear current output module. (Use internal 12V power of the instrument)			
				X5				High precision photoelectric isolated linear current output module. (With its own isolated power)			
	Alarm (ALM)				L0			Relay Output Module 2A / 250VAC			
					L2			Relay Output Module (Omron Relay) 1A / 250VAC			
L3				L3			Dual Relay Output Module 2A / 250VAC				
	LO					LO		Relay Output Module (Omron Relay) 1A / 250VAC			
Auxilary Alarm (AUX) L2 L3						L2		Dual Relay Output Module 2A / 250VAC			
						L3		Voltage Output Module (For SSR Control) DC 12V / 30mA			
Ethernet (Evaluation)							W	Ethernet Socket for local network, monitoring and operating by web browser			
	Cloud/Mobile App (Evaluation)						Υ	Ethernet Socket for internet, monitoring and operating by web browser			

Wiring Diagram

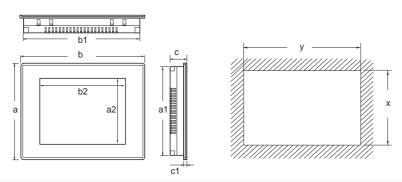




Connection Ports



Dimensions



	Display	Dimensio	n (mm)	External Dimension (mm)							Cut-out dimension (mm)	
		a2	b2	а	b	С	a1	b1	c1	Х	у	
3500/3150 Series	5寸	64	102	105	145	100	94	133	6	96	135	
3700 Series (3170/3270)	7寸	86	154	150	203	40	137	190	6	139	192	
3900 Series (3190/3290)	9寸	112	198	170	231	38	158	219	6	160	221	

Installation Diagram

