

# BrainChild IA10

## Indicator and Alarm Unit



The IA10 Indicator and Alarm Unit features 2 input channels, which can undergo basic arithmetic operations. Additionally, for common sensor inputs that may follow non-linear functions, the IA10 can apply up to 11-point correction. The panel includes three LCD displays, with the main and secondary displays capable of showing up to five digits, with support for 4 decimal places. On the left side, there is an area for status indicators and unit displays (°C, °F, and PU stands for Process Unit). The IA10 includes optional 5 alarms or 3 linear signal retransmission functions, capable of transmitting input signals or computed results. Moreover, it offers 6 event input controls, useful for alarm resetting or other useful control options.



## Specifications

Specification	Power
Power Supply	90 to 250 VAC, 47 to 63 Hz, 20 to 28 VAC, 47 to 63 Hz / 11 to 40 VDC
Power Consumption	12VA,6W Maximum
Over Voltage Category	II
Input 1	
Type	Thermocouple (J,K,T,E,B,R,S,N,L,U,P,C,D), RTD(PT100(DIN),PT100(JIS)), Current(mA), Voltage(V,mV)
Resolution	18 Bits
Sampling Rate	5Time/Sec(200msec)
Input 2	
Type	Linear Current, Linear Voltage
Range	-3mA to 27mA, -1.3V to 11.5VDC
Resolution	18 Bits
Sampling Rate	0.9 time/Sec
Alarm	
Relay Type	Form A
Maximum Rating	2A,240VAC, 200,000 Life cycles for resistive load
Alarm Functions	Hi, Lo, Hi Latch, Lo Latch
Analog Retransmission	
Protocol	Modbus RTU (Slave Mode)
Output Signal	4-20mA, 0-20mA, 0-10VDC
Resolution	15 Bits
Accuracy	$\pm 0.05\%$ of Span $\pm 0.0025\%$ / °C
Linear Output Range	0-22.2mA (0-20mA/4-20mA), 0-5.55VDC (0-5VDC,1-5VDC), 0-11.1VDC (0-10VDC)
Environmental and Physical Specifications	
Mounting	Panel
Size(W*H*D)(mm)	96*48*59
Depth Behind Panel (mm)	50
Cut Out (mm)	92*45
Approval Standards	
Safety <sup>in progress</sup>	UL 61010-1, 3rd Edition, CAN/CSA-C22.2 No.61010-1(2012-05), 3rd Edition, ROHS, REACH
Protective Class	IP50 for the front panel, IP20 for rear terminals and housing. all indoor use.
EMC	EN61326

# Ordering Code



## 1 Power Input

- 4: 90 to 250 VAC, 47-63Hz
- 5: 20 to 28 VAC, 47-63Hz / 11 to 40 VDC

## 2 Alarm 5

- 0: None
- 1: Form A Relay (2A, 250V)
- 3: Isolated 4-20mA/0-20mA (OM98-3)
- 5: Isolated 0-10V (OM98-5)
- 6: DC20V/25mA power

## 3 Alarm 1

- 0: None
- 1: Form A Relay (2A, 250V)
- 3: Isolated 4-20mA/0-20mA (OM98-3)
- 5: Isolated 0-10V (OM98-5)
- 6: DC20V/25mA power

## 4 Alarm 2 to 3

- 1: Form A Relay on Alarm 2 (2A, 250V)
- 2: Form A Relay on Alarm 2 to 3 (2A, 250V)

## 5 Event Input

- 0: None
- 1: 6 Event Inputs

## 9 Option 4

- 000: None
- XXX: Special Order Code

## 8 Option 3

- 0: None
- 1: Retransmission 4-20mA/0-20mA (CM98-3) and Input 2
- 2: Retransmission 0-10VDC (CM98-5) and Input 2
- 3: Alarm4 and Input 2
- 4: Alarm 4, Retransmission 4-20mA/0-20mA (CM98-3) and Input 2
- 5: Alarm 4, Retransmission 0-10VDC (CM98-5) and Input 2

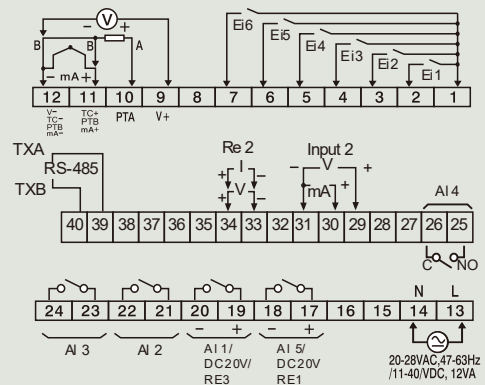
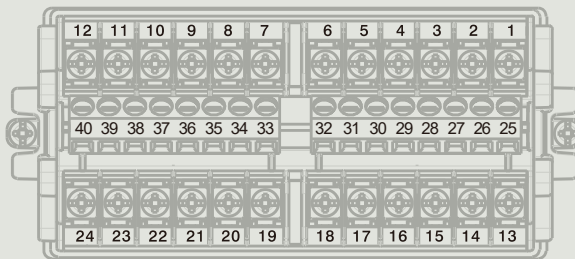
## 7 Option 2

- 0: None

## 6 Option 1

- 0: None
- 1: RS-485 and Input 2

# Wiring



# Dimensions

