

Additional Configuration Data for a Thermocouple Input Module

The content of configuration data bytes 14 to 187 for a Thermocouple module (IC670ALG630) is listed below.

Byte	Description	Byte	Description
14	Number of input reference parameters (2)	48, 49	Thermocouple type for input 1 (only used for conversion types 1 & 2 (see bytes 46, 47) 0 = none 8 = N 1 = J 9 = G 2 = K 10 = C 3 = T 11 = D 4 = E 12 = Platinel II 5 = S 13 = non-standard TC 1 6 = R 14 = non-standard TC 2
15	Number of output reference parameters (2)		
16, 17	Byte length of analog input data		
18, 19	Memory type for the module's analog input data, usually type AI. Enter one of the following numbers: 16 = I table 18 = Q table 10 = AI table 12 = AQ table		
20, 21	Relative offset from start of table	50, 51	Range type for input 1. This is used ONLY if range type (see bytes 48, 49) is set to 0. 0 = unused 4 = 156 mV 1 = 19.5 mV 5 = 312.5 mV 2 = 39 mV 6 = 625 mV 3 = 78 mV
22, 23	Byte length of discrete diagnostic input data		
24, 25	Memory type for the module's diagnostic input bits, usually type I. Enter one of the numbers listed above.		
26, 27	Relative offset from start of table	52, 53	Remote Junction Compensation for input 1 : 0 = none 1 = use local thermistor 2 = use a value supplied in the module's analog output (AQ) data 3 = use the configured value (bytes 58, 59)
28, 29	Byte length of discrete control output data		
30, 31	Memory type for the module's control output bits, usually type Q. Enter one of the numbers listed above.		
32, 33	Relative offset from start of table	54, 55	Low Alarm for input 1 (-32767 to +32767)
34, 35	Byte length of analog output data (for cold junction compensation), usually type AQ	56, 57	High Alarm for input 1 (-32767 to +32767)
36, 37	Memory type for the module's analog output data (used for remote junction compensation). Usually type AQ. Enter one of the numbers listed above.	58, 59	Remote Junction value for input 1. Used only if Remote Junction Compensation (bytes 52, 53) is 3. The module multiplies this value by 100 then adds it to the input voltage before performing linearization. (-327.67 to +327.67).
38, 39	Relative offset from start of table		
40, 41	Line Frequency (0 = 50 Hz, 1 = 60 Hz)	60, 61	Offset for input 1. Used if conversion type (bytes 46, 47) is degrees C or F. This value should be in the same units. The module multiplies the value by 100 before using it. Range is -100.00 to +100.00 degrees.
42, 43	Open circuit checking suppression for input 1 (0 = perform check, 1 = suppress check)		
44, 45	Channel active for input 1 (0 = inactive, 1 = active)	62 - 79	Ch 2 parameters
46, 47	Conversion type for input 1: 0 = 1/100 millivolts 1 = linearized temperature in 1/10 degrees C 2 = linearized temperature in 1/10 degrees F 3 = percent of span (fractional format)	80 - 97	Ch 3 parameters
		98-115	Ch 4 parameters
		116-133	Ch 5 parameters
		134-151	Ch 6 parameters
		152- 169	Ch 7 parameters
		170- 187	Ch 8 parameters