Model

AX-1138A

External standard type
2 ch digital thermistor checker
(low voltage measurement type)

Compare two-measured thermistor with external standard thermistor at one time, percentage measurement

- Can be percentage measured for standard value compare two-measured thermistor with external standard thermistor at one time regardless of temperatures characteristic at room temperature
- Rs/Rx measurement at the same time, process high resistance thermistor of percentage measurement, ultra high speed
- Deter from self-heating of measured object depends on applying measurement voltage for pulsating
- Can be measured external standard and resistance value of two measured thermistors.

Specifications

Measuring range and Accuracy (ambient temp 23℃±5℃)

Range	Measurement and display range	Measuring current	Measurement	Measurement accuracy [Slow]	Measurement accuracy [Fast]
10Ω	Measurement range Resistance range 5%～150% % measurement indication range －99.99%～＋50.00% (±5000 count display) Resistance measurement indication range 0Ω～Resistance range×1.5 (0～15000 count display)	3.16mA	% measurement Resistance value	±3digits±α ±0.03%rdg±2digit	±5digits±β ±0.05%rdg±5digit
100Ω		1.00mA	% Measurement Resistance value	±2digits±α ±0.02%rdg±2digit	±3digits±β ±0.03%rdg±3digit
1kΩ		316μA			
10kΩ		100μA			
100kΩ		20.0μA	% Measurement Resistance value	±3digits±α ±0.03%rdg±3digit	±5digits±1.5β ±0.05%rdg±5digit
1MΩ		3.16μA	% Measurement Resistance value	±5digits±1.5α ±0.05%rdg±5digit	±10digits±2β ±0.10%rdg±5digit
10MΩ		0.63μA	% Measurement Resistance value	±10digits±2α ±0.10%rdg±5digit	±20digits±3β ±0.20%rd±10digits

Measurement integration time : [Slow]＝AC1 period (20.0mS/16.6mS), [Fast]＝4mS (10Ω～100kΩ range), 10mS (1MΩ, 10MΩ range)
α＝(| Rs Count resistance measurement－10000 |)/2000 digit
β＝(| Rs Count resistance measurement－10000 |)/1500 digit

Measurement integration time	[Slow] : AC1～10 cycles, [Fast] : 0.1mS～99.9mS
Sampling time	Free run : 5 times per second [Slow], 10 times per second [Fast]
	External control : Measurement integration time＋(1～10mS) [Differs from range], The fastest about 1mS
Contact check	Selection setting of OFF・PRE・AFT・ALL, Check determination : 47Ω±10Ω (Between I-V terminals)
Comparator set range	[Resistance measurement] : 0～15000 count both for HI and LO (Resistance range＝10000 count)
	[% Measurement] : ±0.00%～＋50.00% both for HI and LO (±5000 count)
Display comparator decision	Lo/GO/Hi judgment to indicate LED on each Rx1, Rx2, Buzzer setup
Machine interface control signal (Connector : 57-40240 Equivalent)	Input : External start, External hold Output : total 14 pcs, Open collector output (max. 40V, 100mA) Judgment output : RxA・RxB＝LO/GO/HI/CE, Rs＝NG Status output : EOC, RxA・RxB INDEX, Preliminary 2ch
RS-232C communication	Asynchronous, Baud rate : 4800～38400bps, Dsub25S
Operation condition	[Temp.] ＋5℃～＋40℃ [Humidity] less than 85% (Disabled when condensation)
Power supply	AC85V～265V , 50/60Hz, about 60VA
Outer dimension	about 333 (W) ×99 (H) ×300 (D) mm (excluding protruding parts such as rubber legs, etc.)
Weight	about 4kg

The Outline

AX-1138A selects to judge the device that is sharp at temperature change such as thermistor or polymer PTC element to compare high speed by connecting the standard device outside, it can be measured for the two Rx resistance at the same time. The function set a corrected value for a true standard is equipped to use the external standard device.

As Rs and Rx always measures at the same time, it can be percentage measurement to reduce the effect of commercial power on th high resustance measurement.

Option

- GP-IB Interface
- RS-232C Interface
- AS-5927 control board

*Either one interface can built-in the option above.