Model AX-1154D Low-OHM Trimming Meter

Best suitable for trimming of ultra-low resistor

- Best suitable to Trimming ultra-low resistance for shunt-resistor, etc.
- Auto. correcting function of trimming value.
- Measurement not to influenced by thermoelectromotive force.
- Impressed the measuring current at pulse interval, in order to reduce abrasion of measuring terminal.
- Contact-check is equipped as standard function.
- Measuring range：0.000mΩ～1.5000kΩ
- Available to percentage measurement for the setup basic value：
  0.5mΩ～1kΩ／－99.99%～＋50.00% [Resolution：50nΩ]
- GP-IB/RS-232C output available. (Option)
- Comparison result by built-in comparator is open-collector output and displayed as LO, GO, HI by LED and buzzer.

Specifications

Measuring range and Accuracy（at23℃±5℃）

Range	Measuring range	Resolution	Measuring current	Measuring accuracy
10mΩ	0.000mΩ～15.000mΩ	1μΩ	1A	within ±(0.01%rdg＋1μΩ) ±3digit [Average] ±4digit [Slow] ±5digit [Fast]
100mΩ	0.00mΩ～150.00mΩ	10μΩ	1A	
1Ω	0.0000Ω～ 1.5000Ω	100μΩ	100mA	
10Ω	0.000Ω～ 15.000Ω	1mΩ		
100Ω	0.00Ω～ 150.00Ω	10mΩ	10mA	
1kΩ	0.0000kΩ～1.5000kΩ	100mΩ	1mA	
%	0.5mΩ～1kΩ／ ±50.0% ±99.99%	0.01% [50nΩ]	Refer to the above	

Open-circuit voltage of measuring terminal		about 8V
Measuring method		4-terminal measurement (contact check available)
Sampling time		[Free running mode] 2～10 times per second
		[External start mode] about 16.5msec./410msec.
		[Trimming mode] 1msec.～100msec.
Setting range for comparator		[Absolute measurements] Both HI and LO 15000
		[Measurement deviation (%)] Both HI and LO －99.99%～＋50.00%
Indication of comparator's judgment result		LO/GO/HI LED display and buzzer
Control signal	Input	START (Remote start)
		TRIM (Remote triming start)
	Output	LO/GO/HI (Judgment output)
		SPEED (Trimming speed mode)/T-NG (Trimming -NG)/END (Trimming-end)
		CE (Contact-error)/EOC (End of comparison)
Operation condition		[Temp.] ＋5℃～＋40℃　　[Humidity] less than 85%
Power supply		AC100V～240V selectable, 50/60Hz, about 60VA
Outer dimension		about 333 (W) ×99 (H) ×300 (D) mm (excluding protruding parts such as rubber legs, etc.)
Weight		about 4.3kg

The Outline

　AX-1154D have mode to be able to measure micro-low resistance from 0.000mΩ to 1500.0Ω at super-high speed sampling under the condition cancelled automatically thermoelectromotive force as well as drift, and they are equipped with the Auto. correcting function of trimming value. This is most suitable model for the trimming of shunt micro-low resistor, etc.

　Both standard measuring mode and trimming measuring mode are available to select which method you like, the measurement to display milli-ohm(mΩ) of the actual measured value or the measurement of deviation value to display the deviation value between the measured resistance and the value set in advance by the reference resistance value.

　It is suitable to measure the low resistance by 4-terminal measuring method, and also the correct measurement of low resistance was realized under condition cancelled the thermoelectromotive force(great error factor) by ADEX own new technical measuring method.

　This model is equipped the function to be able to stably measure by the average process of value measured some times per one item.

　As the contact-check function to check always the contacting situation of measuring terminal is equipped, it is available to judg the contacting defection of each measuring probe.

　The unit can be equipped either one GP-IB or RS-232C interface, can be remote controlled the setup data, the measurement value, and judgment result.

Option

- GP-IB Interface
- RS-232C Interface

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