

Same time measurement of internal Resistance and Electro-motive Voltage of Batterise etc.

Output of total judged result (R&V) by Comparator built in. Possible loading on Automatic Machine conform to remote trigger mode.

# 1kHz Digital m / V Meter Model 340

## Digital Comparator built in Standard equipment of remote control input/output

Measurement Frequency 1kHz

Measurement way 4 terminal measurement

Resistance measuring limit : 0~2kΩ Voltage measuring limit 0~13V

Measuring time approx.47 msec.(50Hz) Remote start

approx.40 msec.(60Hz)

Analog response time 100msec

001~500 (Available limit) Zero compensating function :



Recommendable for production line of Ni-Ca, Lithium-ion, Nickel Hydrogen Batteries etc.

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Model 3400 is for measurement of internal resistance & voltage of having electromotive force & also electricmotive voltage factors such as Battery. Measurement Frequency is 1kHz and display of Resistance value is full scale 1999 3 1/2 digit at 6 ranges of 20m ~ 2k . Voltage value is shown as single range of 13.00V. Also, by 2 steps Digital Comparator, judges as HI,GO,LO and according to both judgements, TOTAL GO/NG judgement is done. Possible external Trigger and have output of judgement signal and EOC. By faster measurement stabilizing time and sampling time, recommendable for loading of low or middle class speed automatic machines.

### **Specifications**

 $1kHz \pm 5\%$ , Sine wave **Measuring Frequency** Measuring method 4 terminal measurement

Resistance measuring limit & accuracy

MeasuringRange	Measuring limit	Resolution	Currency	Accuracy
2 0 m	10μ ~ 19.99m	10 µ	100mA	
2 0 0 m	100µ ~199.9m	100 µ	10 m A	
2	1m ~ 1999 m	1 m	1 m A	within $\pm$ (0.3% rdg + 50 $\mu$ +
2 0	10m ~ 19.99	1 0 m	100 µ A	2digits)
2 0 0	100m ~ 199.9	100 m	10 µ A	
2 k	1 ~ 1999	1	1 µ A	

Ambient temp. ±5

#### Voltage measuring limit & accuracy

Voltage measuring limit	Resolution	Accuracy
0.00V ~ 13.00V	10 m V	within $0.2\% \pm 1  \text{digt}$

Ambient temp. ±5

Resistance display limit 000 ~ 1999 (3 1/2 digit absolute value)

HI-LIMIT, LO-LIMIT 2 steps setting LO, GO, HI, output Resistance value comparator

Both available limit of setting 0000 ~ 1999

LED & external output (open-collector) of LO,GO,HI

Voltage measuring limit & accuracy

 $0V \sim 13.00V \pm 0.2\% \pm 1$ digit

Voltage display limit  $000 \sim 1300$ Zero compensating limit  $001 \sim 500$ 

Voltage value comparator HI-LIMIT, LO-LIMIT 2 steps setting LO, GO, HI judgement output

0000 ~ 1300 Both available setting limit

LED & external output (open-collector) of LO,GO,HI.

**Total judgement** GO or NG judgement and LED & output of external (open-collector) approx.40 msec.(60Hz) Measuring time Remote start approx.47 msec. (50Hz)

Free running 20 times/sec (Final response time : 100 msec.)
Input : Start , Output EOC, each judged output (both+12V isolation) Remote control

Power supply  $AC100V/117V/220V/240V \pm 10\% 50/60 Hz$ Temp.  $+10C \sim +35C$ **Humidity below 80% Ambient conditions** 

 $255(W) \times 90(H) \times 255(D) \text{ mm}$ **Dimensions** 

Weight Approx. 3.5 kg

**Option** RS-232C

Specifications and design are subject to change without notice for improvement.



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