DIGITAL THERMOMETER

3 Measuring Functions: Temperature (RTD and TC),

DC V and OHM

High Accuracy: 0.006%(TC), 0.0045%(DCV)

High Resolution: 0.01°C/0.01°F(RTD), 100nV(DC V)

High-Speed Sampling: 100 times/s(4-1/2 digit display)



DIGITAL THERMOMETER

Precision Digital Thermometer for the R & D, Biometeorology, Medical Science & Energy Saving.

The 7563 Digital Thermometer has 16 ranges of temperature sensors and measuring function of DC V and Ω . YOKOGAWA-original A-D converter (feedback pulse width modulation method)

features the superior noise immunity, stability and high-speed sampling. In addition, versatile functions are suitable for system use and covers a wide variety of applications from test to R & D.

■High accuracy, high resolution and high-speed sampling

Temperature measurement:

Accuracy: 0.006%(TC), 0.01%(RTD)

Resolution: TC...0.1°C(0.1°F), RTD...0.01°C(0.01°F)

DC V measurement:

Accuracy: 0.0045%(2,000 mV range)
Resolution: 100 nV(200 mV range)

 Ω measurement:

Accuracy: 0.006%(2,000 Ω range) Resolution: 100 $\mu\Omega$ (200 Ω range)

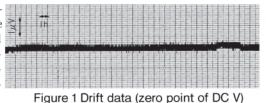
Sampling rate:

Max. 100 times/s (4-1/2 digits)

For the temperature measurement (RTD), high resolution of 0.01° C (0.01° F) can be obtained. In DC V and resistance measurement, the resolution of 100 nV and $100~\mu\Omega$ can be obtained with high stability (Figure 1).

In addition, the high-speed sampling rate of up to 10 ms are available for the study of biometeorology/medical, development

of electronic components where the rapid and precise temperature measurement are required.



■3 measuring functions:Temperature, DC V and resistance

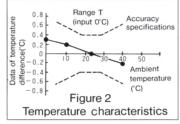
4 types of RTD's (2-wire/3-wire/4-wire) and 12 types of TC's, are available to be used in a wide range of applications. In addition, the DC V and resistance (2-wire/4-wire) measuring

functions are also available in a single instrument.

TC:12 types (R, S, B, K, E, J, T, L, U, N, W and KP vs Au7Fe) RTD: 4 types (Pt100, JPt100, Pt1000 and J263*B)

■High-accuracy reference junction compensation: Compensation accuracy (±0.2°C)

Input terminals are provided on both front and rear panels, and an input site is switch selectable. The rear panel input terminal has an isothermal structure, and it is provided with windbreak cover of one-touch type. The 7563 uses YOKOGAWA-original transistor temperature



sensor in the reference junction compensation circuit. A compensation accuracy of $\pm 0.2^{\circ}C(\pm 0.4^{\circ}F)$ is realized together with the isothermal structure of the input terminal. (Figure 2)

■ IC memory card

IC memory card expands application capability. It is possible to save the measured data of up to 8000 data as a buffer memory. It also allows you to save the panel setting conditions and read it automatically at power ON (AUTO LOAD). In addition, measuring parameters can be programmed up to 20 steps into the memory card.

■GPIB interface(standard)

The 7563 incorporates bidirectional communication function which supports the system use. Not only the measured data output, but also the all functions executed by panel key operation can be controlled excluding only the power supply ON/OFF operation from a host computer by powerful set of commands.

■Multi-point measurement of up to 50 points

By using a programmable scanner **750101** (to be available in 2nd half of 1990), the multi-point measurement of up to 50 points will be possible. Similarly, up to 10 points will be possible by using a **750201** (to be available in 1991).

Adjustment function of Ro: Reference resistance value of RTD (at 0°C)

Adjustment function of Ro expands the 7563's input ranges. As adjustment range of this function covers 0 to 2,000 Ω with 0.001 Ω resolution, the combination of this function and three ranges for Pt RTD sensor offers customer to use almost all types of RTD sensor in the world.

■ Two types of external reference junction compensation (RJC)

- External RJC with adjustable reference junction temperature This function means that user can use any type of reference temperature, such as H₂O(t), He(v), O₂(t), Hg(t), Ga(m), Sn(f), Au(f), etc. Adjustment range covers all temperature range of 12 thermocouples with 0.1°C(0.1°F) resolution.
- Remote RJC utilizing Pt100 sensor (Program Mode)

 In this mode, Pt100 sensor measures the temporary massures the temporary massures that the program is a sensor measures the temporary massures the temporary massures that the program is a sensor measures that the program is a sensor measures that the program is a sensor measures that the program is a sensor measurement of the sensor measurement of the program is a sensor measurement of the

In this mode, Pt100 sensor measures the temperature of external input terminal, and the 7563 compensates the reference junction temperature of the thermocouple connected to the external input terminal.

■Analog output (optional)

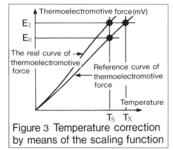
This optional feature specify any data of 3-1/2 or 3 digits on the display and converts it to the analog data with the range of $\pm 500 mV$ or $\pm 1V$.

This function is ideal for both long-time temperature measurement and small change of measurement.

■ Versatile mathematical functions

In addition to the noise elimination function by moving average function and offset compensation (NULL), the scaling function and comparator function are also available.

(Example) When TC is calibrated at a reference temperature (Ts), the correction for measured value (Tx) can easily be obtained



by using the scaling function. (Figure 3).

Scaling function: (X-A)/B, provided that, A=0, B=Tx/Ts

■Software calibration

Calibration of DC V and Ω can be executed by simple panel key operation or via communication interfaces.

Calibration values for temperature measurement ranges are automatically calculated by only giving reference inputs for DC V and Ω ranges.

SPECIFICATIONS

1. DC Voltage (DC V)

Ranges

Dongo	Integrating tim	e (500/200ms)	Integrating time	(100/20/16.7ms)*	Integrating t	time (2.5ms)	Input	Max. Input
Range	Max. Reading	Resolution	Max. Reading	Resolution	Max. Reading	Resolution	Resistance	iviax. Input
200mV	199.9999	100nV	199.999	1μV	199.99	10,μV		±200V peak between
2000mV	1999.999	1μV	1999.99	10,µV	1999.9	100μV	>1GΩ	Hi and Lo,
20V	19.99999	10,µV	19.9999	100μV	19.999	1μV		±42V peak between Lo and guard.
200V	199.9999	100μV	199.999	1mV	199.99	10mV	10MΩ ±1%	±500V peak between Guard and case.

● Accuracy (Integrating time 500ms): ±(% of reading+digits)

Range	24h, 23±1°C	90days, 23±5°C	1year, 23±5°C	Temperature Coefficient (/"C *)
200mV	0.004 +20(3) 4	0.006 + 25 (4) 4	0.01 + 25(4) 4	0.0007 +5(.6) .2
2000mV	0.0025 + 8(2) 3	0.0045 + 10(2) 3	0.0075 + 10(2) 3	0.00055+1 (.2) .1
20V	0.003 + 8(2) 3	0.005 + 10(2)(3)	0.009 + 10(2) 3	0.00065+1 (.2) .1
200V	0.0045+10(2) 3	0.009 + 15(2) 3	0.016 + 15(2) (3)	0.00075+1 (.2) .1

^{*} Temperature range: 5 to 18, 28 to 40°C

- *16.7ms shows 16.66 Accuracy at 24 hours, $23\pm1^{\circ}\text{C}$ is the value for calibration standard.
 - Auto Zero ON, Null.
 - •Integrating time: At 200ms, 2 is added to the value (digits) in integrating time 500ms.
 - () indicates the value (digits) in integrating time 100ms. At 20/16.7ms, 2 is added to the value (digits) in integrating time of ().
 - | | indicates the value (digits) in integrating time 2.5ms
 - •At Auto Zero OFF, temperature coefficient of $\pm (0.0015\% \text{ of range } \pm 25\mu\text{V})$ °C is added (at 5 to 40°C).
 - ●Common Mode Rejection: 120dB or more. Integrating time: 500/200/100/20/16.7ms, Rs=1kΩ, 50/60Hz ±0.1% (Rs: signal source resistance).
 - Normal Mode Rejection: 60dB or more. Integrat ing time: 500/200/100/20/16.7 ms, $50/60 Hz \pm 0.1\%$.

2. Resistance (OHM)

Danna	Integrating time (500/200ms)		Integrating time	(100/20/16.7ms)	Integratig til	Current through	
Range	Max. Reading	Resolution	Max. Reading	Resolution	Max. Reading	Resolution	unknown
200Ω	199.9999	100μΩ	199.999	1mΩ	199.99	10mΩ	1mA
2000Ω	1999.999	1mΩ	1999.99	10mΩ	1999.9	100mΩ	1mA
20kΩ	19.99999	10mΩ	19.9999	100mΩ	19.999	1Ω	100µA
200kΩ	199.9999	100mΩ	199.999	1Ω	199.99	10Ω	10,uA
2000kΩ	1999.999	1Ω	1999.99	10Ω	1999.9	100Ω	1μ A
20ΜΩ	19.9999	100Ω	19.9999	100Ω	19.999	1kΩ	100nA

• Accuracy (4-wire integrating time 500ms): +(% of reading + digits)

TACCUIACY (4-WIIC,	integrating time cooms	sy. = (// or reading / a	19110)	
Range	24h, 23±1°C	90days, 23±5°C	1 year, 23±5°C	Temperature coefficient (/°C *)
200Ω	0.004 + 25(4) 4	0.008 + 30(5) 4	0.012 + 30(6) 4	0.001 +10(2) 0.5
2000Ω	0.003 + 15(3) 3	0.006 + 25(4) 3	0.01 + 25(5) 3	0.00075+ 2(0.5) 0.1
20kΩ	0.003+ 15(3) 3	0.006 + 25(5) 3	0.01 + 25(5) 3	0.00075+ 2(0.5) 0.1
200kΩ	0.005 + 20(3) 3	0.008 + 30(5) 3	0.012 + 30(5) 3	0.00075+ 1(0.5) 0.1
2000kΩ	0.02 +135(15) 20	0.03 +150(20)(30)	0.05 +150(20) (30)	0.003 + 2(0.5) 0.1
20ΜΩ	0.2 + 30(30)	0.2 + 30(30)	0.2 + 30(30)	0.02 + 1(1)

^{*} Tempearature range: 5 to 18, 28 to 40°C

- •Accuracy at 24hours, 23±1°C is the value for the calibration standard.

 • Auto Zero ON, Null.
- •Integrating Time: At 200ms, 2 is added to
- the value (digits) in integrating time 500ms. • () indicates the value (digits) in integrating time 100ms. For integrating time 20/16.7ms. 2 is added to the value (digits) enclosed in the parentheses.
- | | indicates the value (digits) in integrating time 2.5ms.
- ●For 20MΩ at sampling interval 400ms or more. Accuracy is not prescribed in integrating time 2.5ms
- At Auto Zero OFF, temperature coefficient on 200 Ω range is $\pm (0.013\% \text{ of range})$ °C, on other ranges $\pm (0.003\% \text{ of range})$ /°C is added (at 5 to 40°C).
- ullet For 2-wire system, $2m\Omega/^{\circ}C$ is added.
- Excluding the influence of leadwires.
- Open Circuit Voltage: Max. 10V.
- ■Maximum Input Voltage: ±200V peak or 200 V rms (between Hi and Lo).
- ullet Response Time: 0.4s or less on 2,000k $\Omega/20$ MΩ ranges. (to final value)

3. Temperature (TC)

* 1. Range	Measurement range		Resolution	* 2. Accuracy (Integ	grating time 500/200/100/20/16	5.7): ±(% of rdg+°C)	Temperature coefficient (common to each integrating time)		
~ I. hariye		nent range	500/200ms	24hours, 23±1 * 4	90days, 23±5°C * 4	1 year, 23±5°C * 4	x 3. Temperature coefficient x 4	Condition	
R	-50.0 to 0°C 0.0 to 100.0°C 100.0 to 600.0°C 600.0 to 1,760.0°C	-58.0 to 32.0°F 32.0 to 212.0°F 212.0 to 1,112.0°F 1,112.0 to 3,200.0°F	0.1°C (0.1°F) 0.1°C (0.1°F) 0.1°C (0.1°F) 0.1°C (0.1°F)	0.005 + 0.5 0.7 0.005 + 0.4 0.5 0.005 + 0.3 0.4 0.005 + 0.2 0.3	0.007 + 0.5 0.7 0.007 + 0.4 0.5 0.007 + 0.3 0.4 0.007 + 0.2 0.3	0.01+0.5 0.7 0.01+0.4 0.5 0.01+0.3 0.4 0.01+0.2 0.3	0.001 +0.07		
S	-50.0 to 0°C 0.0 to 100.0°C 100.0 to 600.0°C 600.0 to 1,760.0°C	-58.0 to 32.0°F 32.0 to 212.0°F 212.0 to 1.112.0°F 1,112.0 to 3,200.0°F	0.1°C (0.1°F) 0.1°C (0.1°F) 0.1°C (0.1°F) 0.1°C (0.1°F)	0.005 + 0.6 0.7 0.005 + 0.4 0.5 0.005 + 0.3 0.4 0.005 + 0.2 0.3	0.007 + 0.6 0.7 0.007 + 0.4 0.5 0.007 + 0.3 0.4 0.007 + 0.2 0.3	0.01+0.6 0.7 0.01+0.4 0.5 0.01+0.3 0.4 0.01+0.2 0.3	0.001 +0.07		
В	0.0 to 42°C 42.0 to 100.0°C 100.0 to 200.0°C 200.0 to 300.0°C 300.0 to 400.0°C 400.0 to 1,820.0°C	32.0 to 107.6°F 107.6 to 212.0°F 212.0 to 392.0°F 392.0 to 572.0°F 572.0 to 752.0°F 752.0 to 3,308.0°F	0.1°C (0.1°F) 0.1°C (0.1°F) 0.1°C (0.1°F) 0.1°C (0.1°F) 0.1°C (0.1°F)	0.005 + 7.0 9.0 0.005 + 1.5 2.0 0.005 + 1.0 1.2 0.005 + 0.7 0.9 0.005 + 0.3 0.4			0.001 + 0.02		
К	-270.0 to -250.0°C -250.0 to -200.0°C -200.0 to 0.0°C 0.0 to 1,370.0°C	-454.0 to -418.0°F -418.0 to -328.0°F -328.0 to 32.0°F 32.0 to 2,498.0°F	0.1°C (0.1°F) 0.1°C (0.1°F) 0.1°C (0.1°F) 0.1°C (0.1°F)	0.004 + 1.3 2.5 0.004 + 0.5 0.9 0.004 + 0.3 0.4 0.004 + 0.2 0.3	0.006 + 1.3 2.5 0.006 + 0.5 0.9 0.006 + 0.3 0.4 0.006 + 0.2 0.3	0.01 + 1.3 2.5 0.01 + 0.5 0.9 0.01 + 0.3 0.4 0.01 + 0.2 0.3	0.0007 + 0.02	At the ambient	
J	-210.0 to -200.0°C -200.0 to -150.0°C -150.0 to 0.0°C 0.0 to 1,200°C	-346.0 to -328.0°F -328.0 to -238.0°F -238.0 to 32.0°F 32.0 to 2,192.0°F	0.1°C (0.1°F) 0.1°C (0.1°F) 0.1°C (0.1°F) 0.1°C (0.1°F)	0.004 + 0.4 0.6 0.004 + 0.3 0.5 0.004 + 0.2 0.4 0.004 + 0.2 0.3	0.006 + 0.4 0.6 0.006 + 0.3 0.5 0.006 + 0.2 0.4 0.006 + 0.2 0.3	0.01 + 0.4 0.6 0.01 + 0.3 0.5 0.01 + 0.2 0.4 0.01 + 0.2 0.3	0.0007 + 0.01	temperature of 5 to 18°C (41 to 64°F) and 28 to 40°C (82 to	
E	-270.0 to -250.0°C -250.0 to -200.0°C -200.0 to 0.0°C 0.0 to 1,000.0°C	-454.0 to -418.0°F -418.0 to -328.0°F -328.0 to 32.0°F 32.0 to 1,832.0°F	0.1°C (0.1°F) 0.1°C (0.1°F) 0.1°C (0.1°F) 0.1°C (0.1°F)	0.004 + 0.8 1.5 0.004 + 0.3 0.6 0.004 + 0.2 0.4 0.004 + 0.2 0.3	0.006 + 0.8 1.5 0.006 + 0.3 0.6 0.006 + 0.2 0.4 0.006 + 0.2 0.3	0.01 + 0.8 1.5 0.01 + 0.3 0.6 0.01 + 0.2 0.4 0.01 + 0.2 0.3	0.0007 + 0.01	104°F)	
Т	- 270.0 to - 250.0°C - 250.0 to - 200.0°C - 200.0 to 400.0°C	-454.0 to -418.0°F -418.0 to -328.0°F -328.0 to 752.0°F	0.1°C (0.1°F) 0.1°C (0.1°F) 0.1°C (0.1°F)	0.004 + 1.0 1.5 0.004 + 0.3 0.5 0.004 + 0.2 0.3	0.006 + 1.0 1.5 0.006 + 0.3 0.5 0.006 + 0.2 0.3	0.01 + 1.0 1.5 0.01 + 0.3 0.5 0.01 + 0.2 0.3	0.0007 + 0.02		
U	-200.0 to -100.0°C -100.0 to 0.0°C 0.0 to 600.0°C	-328.0 to -148.0°F -148.0 to 32.0°F 32.0 to 1,112.0°F	0.1°C (0.1°F) 0.1°C (0.1°F) 0.1°C (0.1°F)	0.004 + 0.3 0.4 0.004 + 0.3 0.4 0.004 + 0.2 0.3	0.006 + 0.3 0.4 0.006 + 0.3 0.3 0.006 + 0.2 0.2	0.01 + 0.3 0.4 0.01 + 0.3 0.4 0.01 + 0.2 0.4	0.0007 + 0.01		
L	-200.0 to -100.0°C -100.0 to 900.0°C	-328.0 to -148.0°F -148.0 to 1,652.0°F	0.1°C (0.1°F) 0.1°C (0.1°F)	0.004 + 0.3 0.4 0.004 + 0.2 0.3	0.006+0.3 0.4 0.006+0.2 0.3	0.01+0.3 0.4 0.01+0.2 0.3	0.0007 + 0.01		
N	0.0 to 1,300.0°C	32.0 to 2,372.0°F	0.1°C (0.1°F)	0.004+0.2 (0.3)	0.006+0.2 (0.3)	1+0.2 0.3			
W	0.0 to 2,315.0°C	32.0 to 4,199.0°F	0.1°C (0.1°F)	0.004 + 0.2 0.4	0.006+0.2 0.4	0.01 + 0.2 0.4			
KPvsAu7Fe	0.0 to 20.0K 20.0 to 70.0K 70.0 to 300.0K		0.1K 0.1K 0.1K	* 2 0.005 + 0.3 0.4 0.005 + 0.2 0.3 0.005 + 0.2 0.2	× 2 0.007 + 0.3 0.3 0.007 + 0.2 0.2 0.007 + 0.2 0.2	× 2 0.011 + 0.3 0.3 0.011 + 0.2 0.2 0.011 + 0.2 0.2	* 3 0.001 + 0.05		

- * 1. As to the R. S. B. K. J. E, T and N, the provisions of IEC584-1-1995 apply. As to the U and L, those of DIN43710 apply.
- As to the W, those of Hoskins Mtg CO (USA) apply. As to the KpvsAu7Fe, those of NSB Vol. 76A apply.
- * 2. KPvsAu7Fe: ±(% of rdg+K) * 3. KPvsAu7Fe: ±(% of rdg+K)/°C * 4. In case of accuracy and temperature coefficient of °F, multiply 1.8×°C.

■ Accuracy of reference junction compensation

Range	Accuracy of reference junction compensation(°C)	Description	
R, S, B, W, KPvsAu7Fe	±0.3°C (±0.6°F)	At the ambient	
K, J, E, U, L, N, T	±0.2°C (±0.4°F)	temperature of 5 to 40°C	

- In case of internal compensation, the above accuracy of reference junction compensation should be added to measuring accuracy.
- The accuracy for Type B at 0 to 42°C is not prescribed.

▶ Temperature unit

Changable among °C, °F, and K. Provided, however, that only K applies as to KPvsAu

▶ Accuracy

- The accuracy is in the case of REAR input, external RJC (reference junction temperature=0°C).
- ●In case of FRONT input, 0.2°C should be
- | | indicates the values in integraing time of 2.5ms.
- Auto Zero ON.
- Accuracy of RJC is excluded.
- The accuracy for Type B at 0 to 42°C is not prescribed.
- ●Common mode rejection: 120dB or more Integrating time: 500, 200, 100, 20 and 16.7ms $RS = 1k\Omega$, $50/60Hz \pm 0.1\%$
- ●Normal mode rejection:60dB or more Integrating time: 500, 200, 100, 20, and 16.7 ms. 50/60Hz+0.1%
- ●In case of integrating time 200 or 500ms at measuring temperature, the response time is 100ms be setting FILTER.

5. Sampling interval

10 ms to 60 min. (1 ms min., 1 s at 3 s or more)

Minimum time of the following conditions ●DC V, OHM, RTD (2- or 4-wire), TC (reference junction com-

Integrating Time	Measuring Interval (Auto Zero OFF)	Measuring Interval (Auto Zero ON)		
2.5ms	10ms	15ms		
16.7ms	25ms	45ms		
20ms	35ms	55ms		
100ms	110ms	215ms		
200ms	210ms	415ms		
500ms	510ms	1015ms		

●RTD (3-wire)

Integrating Time	Measuring Interval	_
2.5ms	95ms	
16.7ms	145ms	
20ms	155ms	
100ms	395ms	
200ms	695ms	
500ms	1595ms	

Measuring Interval (Auto Zero OFF)	Measuring Interva (Auto Zero ON)		
70ms	150ms		
135ms	215ms		
150ms	230ms		
470ms	550ms		
870ms	950ms		
2070ms	2150ms		
	(Auto Zero OFF) 70ms 135ms 150ms 470ms 870ms		

4. Temperature (RTD)

	-							
	Measurement range	Resolution	Current through	* 2. Accur	Temperature coefficient (common to e	ach integrating time)		
A I. Harige	ivieasurement range	500/200/100ms	unknown	24hours, 23±1°C × 4	90days, 23±5°C × 4	1 year, 23±5°C × 4	Temperature coefficient (% of rdg + °C)/°C × 4	Conditions
Pt100	- 200.00 to 850.00°C (- 328.00 to 1,562.00°F)	0.01°C (0.01°F)	1mA	0.005 + 0.07 (0.1) 0.3	0.01 + 0.07 (0.1) 0.3	0.014 + 0.07 (0.1) 0.3	0.001 + 0.006	Ambient
JPt100	-200.00 to 510.0°C (-328.00 to 950.00°F)	0.01°C (0.01°F)	1mA	0.005 + 0.07	0.01 + 0.07 (0.1) 0.3	0.014 + 0.07 (0.1) 0.3	0.001+0.004	temperature 5 to 18°C
Pt1000	- 200.00 to 850.00 °C (-328.00 to 1,562.00 °F)	0.01°C (0.01°F)	0.1mA	0.005 + 0.05 (0.07) 0.2	0.01 + 0.05 (0.07) 0.2	0.014 + 0.05 (0.07) 0.2	0.001+0.003	(41 to 64°F) 28 to 40°C
J263*B	2.0 to 300.0K	0.1K	1mA	* 2 0.005 + 0.1	*2 0.012 +0.1	* 2 0.016 + 0.1	* 3 0.001+0.003	(82 to 104°F)

- * 1. As to Pt100, IEC751-1995 apply. As to Pt1000, the prescription for Pt100 of IEC751-1995 applies. As to JPt100, JISC1604-1989 apply.
- * 2. J263*B: ±(% of rdg+K) * 3. J263*B: ±(% of rdg+K)/*C * 4. In case of accuracy and temperature coefficient of *F, multiply 1.8 × *C.

■Temperature unit

Changeable among °C, °F and K, but as to J263 only K applies.

Accuracy Same accuracy for both FRONT and REAR input.

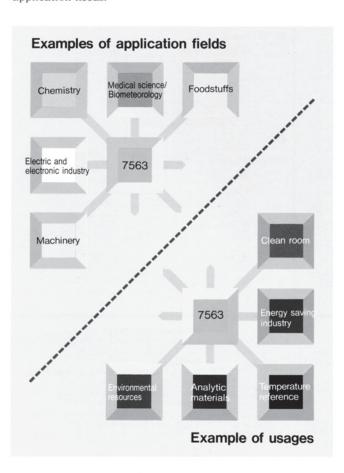
- Allowable conductor resistance: Less than 10Ω.
- •() indicates the accuracy in integraing time of 100, 20, 16ms.
- || indicates the accuracy in integraing time of 2.5ms.

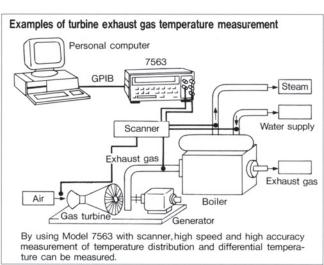
■Temperature coefficient

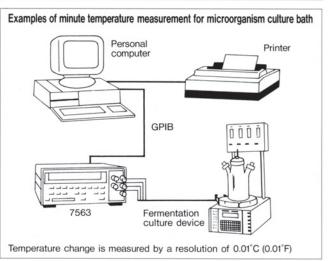
●For 3-wire Pt100, J263·····0.003 °C/°C JPt100, Pt1000····0.002 °C/°C is added



Temperature is measured at every place of various fields. The digital thermometer 7563 has high accuracy, high resolution and high-speed sampling in order to meet a various application needs.







■General Specifications

Operating Principle: Feedback pulse width modulation method.

Sample Mode: Auto/Single/N reading. Maximum Reading: 1999999.

Overrange Information: -oL- sign display.

Data Memory: 1,000 data, measured data can be stored and

recalled: (STORE/RECALL).

Ranging: AUTO, MANUAL, (remote control and programming

possible).

Analog Output (D-A converter): Optional.

Burnout: TC burnout (defective connection or disconnection etc.) is automatically checked and indicated by alarm display (ON or OFF selectable).

 $2k\Omega$ or less (normal), if the value is higher than $30k\Omega$, the connection is cut down. Current $2.2\mu A$ or so. Pulse width detection; 2.4ms or so.

Interface

GPIB Interface (7563 01)

Electrical & Mechanical Specifications: Conforms to IEEE St'd 488-1978.

Interface Function & Identification: SH1, AH1, L4, SR1, RL1, PP0, DC1, DT1, C0. Address Mode, address and header ON/ OFF can be settable.

Operating Temperature Range: 5 to 40°C (41 to 104°F).

Humidity Range: 20 to 80% relative humidity.

Warmup Time: Approx. 60 minutes to rated accuracy.

Power Requirements : $100/115\,V$ AC $\pm\,10\%$ (100/115V : selectable by switch), 50 or 60Hz (200/230V must be specified, selectable)

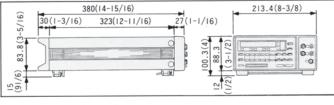
Power Consumption: 20 VA max.

Dimensions (Approx.): $213(W) \times 88(H) \times 350(D) mm$,

 $(3-1/2\times8-3/8\times13-15/16")$. Weight (Approx.): 3 kg (6.6 lbs).

Standard Accessories : Power supply cord 1 set, $0.2\ A$ fuse (time lag) 1 pc., remote connector 1 pc., instruction manual 1 copy.

Dimensions

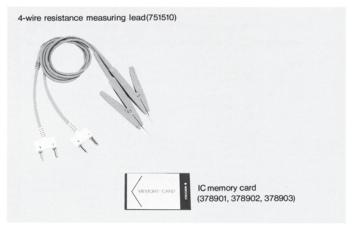


■ Model, Suffix and Option Codes

Model	Suffix Codes			Description			
756301					6.5 digits	DCV, OHM, TEMP, (TC&RTD) (GPIB)	
	-В			-	Always B (version code)	
-1			100V AC (50 & 60Hz), 115V AC changable				
Power		-3			115V AC (50 & 60Hz), 100V AC changable		
Requireme	Requirements -5				200V AC (50 & 60Hz), 230V AC changable		
		-7			230V AC (50 & 60Hz), 200V AC changable		
			/B		JIS standa	rd	
Power Cor	ď		/D		UL standar	d	
			/F	7 7	VDE stand	ard	
		/G		SAA standard			
Optional fea	onal feature /DA D-A converter			ter			

Optional Accessories

Name	Code	Description
IC memory card (8K bytes)	378901	Setting & measured data
IC memory card (16K bytes)	378902	Setting & measured data
IC memory card (128K bytes)	378903	Setting & measured data
Dummy card	B9586NG	Dust cap for memory card slot
Rack mounting kit	751501	EIA (single mounting)
Rack mounting kit	751502	EIA (double mounting)
Rack mounting kit	751503	JIS (single mounting)
Rack mounting kit	751504	JIS (double mounting)
4-wire resistance measuring lead	751510	0.6m





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Unit: mm(inch)

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