1.2 SPECIFICATIONS

		Ranges							
		0	1	2	3	4	5	6	7
Full Scale Values	L,	200 µH	2 mH	20 mH	200 mH	2 H	20 H	200 H	200 H
	Co	200 pF	2 nF	20 nF	200 nF	2 μF	20 µF	عبر 200 µF	2000 µF
	R,	2 Ω	20 Ω	200 ₪	2000 Ω	20 kΩ	200 kΩ	2000 kΩ	2000 kΩ
	Go	2 µS	20 µS	200 ⊭S	2000 µS	20 mS	200 mS	2000 mS	20 S
	D	1.999							
Accuracy (15°C to 35°C)	L,	±(0.25% + (1 + 0.002R _s *) digits] **	± [0.25% + ± [0.25% + (1 + 0.001R _s *)digits]						±[0.25% + (1+0.010R ₅ *) digits]
	Ср	±[0.25% + (1 + 0.002Gp*) digits] **	25% + 02Ge*) ±[0.25% + (1 + 0.001Ge* digits]					±[0.25% + (1+0.010Gp*) digits]	±[0.25% + (1+0.010Gp*) digfts]
	R,	±(0.25% + (1 + 0.002Ls*) digits)						± (0.25% + (1+0.010L ₈ *) digits]	±(0.25% + (1+0.010L ₈ *) digits]
	Gρ	±(0.25% + (1 + 0.002Cp*) digits)	$\pm [0.25\% + (1 + 0.001C_p^+) \text{digits}]$ (1+0)					±[0.25% + (1+0.010C _p *) digits]	± [0.25% + (1+0.010C _p *) digits]
	D	±(1% + 0.002) for L or C > 200 counts ±(2% + 0.010) for L or C 50 to 199 counts							±(2% + 0.010)
Test	Voltage Cp. Gp	1.0 V	1.0 VRMS 0.1 VRMS						0.01 VRMS
	Current Ls. Rs	100 mA	10 mA	10 mA 1 mA 100 µA 10 µA					μА

^{*}Digit count, same range.

Table 1-1. Model 253 Specifications

Test Frequency: $1kHz \pm 1\%$

Unknown Excitation: The 1kHz voltage (Vx) and current (Ix) levels listed in Table 1-1 are held

constant by an internal amplitude control circuit.

Measurement Rate: Four per second; one second is required for first reading after connecting

unknown to terminals.

Measurement Display: 3-1/2 digit LED with decimal point. Blanked for overload conditions.

Unit Display: Unit of mesurement being displayed by the LED readout is indicated by front panel

LED lamps used in conjunction with the desired function button and the front panel

range switch or autoranging mode.

External Bias: Rear panel terminals are provided for connection of external supply. OV to 50VDC,

0.1A maximum. (Read Section 2.2.6 before using external bias.)

Static Charge Protection: Diode and resistor discharge network.

^{**}After correction for test lead zero reading.
0°C to 15°C and 35°C to 50°C: add 0.1(rated accuracy)/°C.

Connection to Unknown: Four-terminal, shielded, connections are provided by the KELVIN KLIPS®

cable assembly (Tegam Part Number 43072) supplied with the Model

253.

Outputs: Analog signals of 1V per 1,000 counts, $1k\Omega$ source resistance is available at rear panel.

L, C, R, or G, with simultaneous output of D for L or C.

Power Consumption: 4 watts typical.

Power Requirements: 100 to 125V or 200 to 250V, 50/60Hz.

Fuse: 110V: 1/16A, 250VAC Slow-Blow

220V: 1/20A, 250VAC Slow-Blow

Size: Height (with feet) - 100mm (4 in.)

Width - 260mm (10 in.)

Depth (overall) - 370mm (14.6 in.)

Weight: 3.2kg (7 lb.)

Accessories supplied with Model 253: Tegam Part No.

KELVIN KLIPS® Four-Terminal Clips 43072
Instruction Manual 43761

Options Available: Tegam Part No.

Sorting Fixture Model 2001 (low frequency) 32001
Cable Assembly (for Model 2001 connection) 43586
Front Panel Dust Cover 43374