

TEAC TD-SC1 Specifications

Bridge Voltage		DC 10 V, 5 V \pm 10% (30mA current maximum, can be used with remote sense)
Signal input range		\pm 5.0mV/V
Equivalent Input/TEDS	Calibration range	0.05mV/V - 5.0mV/V
	Calibration precision	Within 0.1% F.S. (when using 1m standard TEAC \varnothing 8, 6-core shielded cable with 350 Ω impedance, 10V BV and 5mV/V setting)
Precision	Linearity	Within 0.01%F.S. +1 digit (when input is 5mV/V)
	Zero drift	Within 0.5 μ V/ $^{\circ}$ C (Input conversion value)
	Gain drift	Within \pm 0.005%F.S/ $^{\circ}$ C
A/D conversion		24-bit, 20000 times/second
Digital filter		Select 3, 10, 30, 100, 300, 1000 Hz(-6 dB/oct) or none
D/A output**		4000 times per second, isolated output, \pm 1- \pm 10V voltage output (set in 1V steps) and about 1/59000 resolution (when set to \pm 10 V), or 4-20mA current output and about 1/43000 resolution
TEDS function		IEEE1451.4 class 2 mix mode interface
Indicator value	Display range	-99999 to 99999

	Decimal point	Display position selectable
	Times displayed	Select 4, 6, 10 or 20 times/second
Setting items	Calibration settings	Zero Balancing, TEDS Calibration, Actual Load Calibration, Equivalent Input Calibration
	Function settings	High limit, low limit, comparison mode, hysteresis, nearly zero, moving average, low pass filter, motion detect, zero tracking, static strain, digital zero, digital offset, zone definition, hold mode, lock, minimum grid, display times, bridge voltage, digital zero limit, clear digital zero, comparison output pattern, select data output**, D/A converter**, remote sense
Hold function		Sample hold, peak hold, bottom hold, zone definition hold (peak, bottom)
External input and output signals	Input	Hold, clear, digital zero (isolated from main unit circuits using a photocoupler)
	Output	HI, OK, LO open collector output (isolated from main unit circuits using a photocoupler)
	RS-485*	A+, B- (isolated from main unit circuits using a photocoupler), TRM, SG
Power supply		Ratings: 24V DC $\pm 10\%$ 7W
Operating temperature range		0°C to 40°C
Storage temperature range		-20°C to 60°C

Operating humidity range	85% RH or less (without condensation)
Applicable standards	CE marking, FCC (Class A), UL61010-1, UKCA
External dimensions (W×H×D)	Approximately 30 mm × 85 mm × 110 mm (without protrusions)
Weight	About 210 g

*TD-SC1 (485) only

**TD-SC1 (D/A) only

- Specifications and appearance are subject to change without notice.
- Weight and dimensions are approximate.
- Illustrations in this owner's manual might differ slightly from production models.