





TD-SC1 Load Cell Signal Conditioner





SPECIFICATIONS

Bridge voltage		DC 5V / 10V ±10% (30mA current maximum, remote sense can be used)	
Signal input range		±5.0mV/V	
Equivalent Input /TEDS	Calibration range	0.05mV/V to 5.0mV/V	
	Calibration precision	Within 0.1% F.S. (when using 1m standard TEAC 08, 6-core shielded cable with 350Ω impedance, 10V BV and 5mV/V setting)	
	Linearity	Within 0.01% F.S. +1 digit (when input is 5mV/V)	
	Zero drift	Within 0.5µV/°C (Input conversion value)	
	Gain drift	Within ±0.005% F.S/°C	
A/D conversion		24-bit, 20000 times per second	
Digital filter		OFF/3/10/30/100/300/1000Hz (-6dB/oct)	
Moving average		OFF / 2 to 2048 times	
TEDS function		IEEE1451.4 class 2 mix mode interface / Loading, Rewriting, Restoring	
Display		Status display by LED on the front of the main unit	
Comparisor	Setting	HI, LO	
function	Setting range	-99999 to 99999	
Hold function		Sampling, Peak, Bottom, Zone definition (Peak, Bottom)	
Control inpu output signa	Input signal	Hold, Digital zero, Clear (Photocoupler Insulation)	
		Load judgment (HI/OK/LO), NPN open collector (Photocoupler Insulation)	
	USB Serial	Main unit setting by dedicated application.	
	TD-SC1 (D/A)	Voltage: 0 - ±10V Current: 4 - 20mA	
Output	TD-SC1 (485)	A+, B- (Photocoupler Insulation), TRM, SG	
	TD-SC1 (E/IP)	P1, P2	
	TD-SC1 (CCL)	DA, DB (isolated from main unit circuits using a photocoupler), DG, SLD	
Power supply		Ratings: 24V DC ±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, UKCA marking, FCC (Class A), UL61010-1	
External dimensions (W×H×D)		Approx. $30 \times 85 \times 110$ mm (without protrusions)	
Weight		Approx. 210g	
How to install		Support for 35mm wide top hat type rails (DIN rail mounting)	
Options		AC adapter (AC100 to 240V, compliant to the safety standards of Japan and North America)	

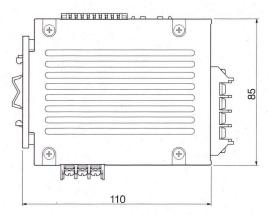
PIN ARRANGEMENT (common parts)

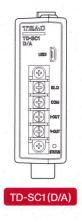
Termina	I. Signal	Description
1	TEDS	TEDS memory signal
2	GND	TEDS memory signal ground
3	+EXC (A)	Excitation voltage +
4	+SENS (F)	Remote sense +
5	-SIG (B)	Input signal -
6	-EXC (C)	Excitation voltage –
7	-SENS (G)	Remote sense –
8	+SIG (D)	Input signal +
9	SHIELD (E)	FG
10	SHIELD (E)	FG
11	D/Z	Digital zero
12	HOLD	Hold start signals
13	CLEAR	Clearing the hold
14	Comparison judged HI	High limit judgment output
15	Comparison judged LO	Low limit judgment output
16	Comparison judged OK	OK judgment output
17	Power supply for control input signal (+)	Input +24V
18	Power supply for control input signal GND	Connect with 0V

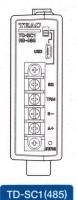


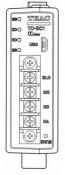
DIMENSIONS / UNIT: (mm)

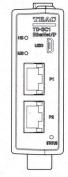












TD-SC1(CCL)

Page 2/2