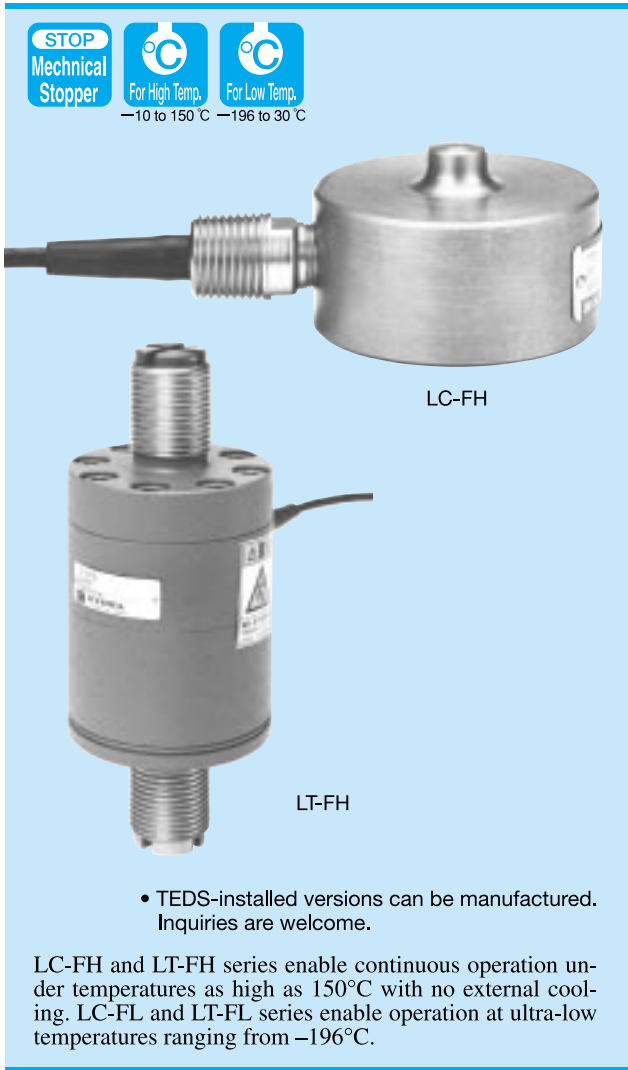


LC-FH/FL, LT-FH/FL

LC: High/Low Temp. Compression Load Cells
 LT: High/Low Temp. Tension Load Cells

●FH: -10 to 150°C ●FL: -196 to 30°C ●500 N to 200 kN



- TEDS-installed versions can be manufactured. Inquiries are welcome.

LC-FH and LT-FH series enable continuous operation under temperatures as high as 150°C with no external cooling. LC-FL and LT-FL series enable operation at ultra-low temperatures ranging from -196°C.

Features

- Selectable from a wide range of rated capacities
- Mechanical stopper which activates against 500% overload
- High reliability
- Airtight structure

Specifications

Performance

Rated Capacity: See table below.
 Nonlinearity: Within $\pm 0.5\%$ RO
 Hysteresis: Within $\pm 0.5\%$ RO
 Repeatability: 0.05% RO or less
 Rated Output: 1.5 mV/V (3000 $\mu\text{m/m}$) $\pm 0.2\%$

Environmental Characteristics

Safe Temperature Range:
 FH -10 to 150°C
 FL -200 to 80°C
 Compensated Temperature Range:
 FH -10 to 150°C
 FL -196 to 30°C
 Temperature Effect on Zero Balance: Within $\pm 0.005\%$ RO/°C
 Temperature Effect on Output: Within $\pm 0.01\%$ /°C

Electrical Characteristics

Safe Excitation Voltage: 20 VAC or DC
 Recommended Excitation Voltage: 1 to 10 VAC or DC
 Input Resistance: 350 $\Omega \pm 0.5\%$
 Output Resistance: 350 $\Omega \pm 0.5\%$
 Cable: 4-conductor (0.3 mm²) fluoroplastic shielded cable, 5 mm diameter by 5 m long, terminated with connector plug (shield wire is not connected to mainframe.)

Mechanical Properties

Safe Overload Rating: 200%
 Critical Overload: 500% (LT-FH/FL)
 Natural Frequency: See table below.
 Weight: See table below.

Compression Load Cells

High Temp.	Low Temp.	Rated Capacity	Natural Frequency (Approx.)	Weight (Approx.)
LC-50KFH	LC-50KFL	500 N	3.2 kHz	1.5 kg
LC-100KFH	LC-100KFL	1 kN	5.1 kHz	
LC-200KFH	LC-200KFL	2 kN	7.2 kHz	
LC-500KFH	LC-500KFL	5 kN	11 kHz	1.5 kg
LC-1TFH	LC-1TFL	10 kN	17 kHz	
LC-2TFH	LC-2TFL	20 kN	21 kHz	
LC-5TFH	LC-5TFL	50 kN	16 kHz	2.6 kg
LC-10TFH	LC-10TFL	100 kN	11 kHz	4.2 kg
LC-20TFH	LC-20TFL	200 kN	8.6 kHz	8.5 kg

Tension Load Cells

High Temp.	Low Temp.	Rated Capacity	Natural Frequency (Approx.)	Weight (Approx.)
LT-50KFH	LT-50KFL	500 N	1.5 kHz	2.3 kg
LT-100KFH	LT-100KFL	1 kN	2.6 kHz	
LT-200KFH	LT-200KFL	2 kN	4.1 kHz	
LT-500KFH	LT-500KFL	5 kN	5.0 kHz	2.6 kg
LT-1TFH	LT-1TFL	10 kN	5.2 kHz	2.7 kg
LT-2TFH	LT-2TFL	20 kN	5.8 kHz	2.9 kg
LT-5TFH	LT-5TFL	50 kN	4.5 kHz	7.0 kg
LT-10TFH	LT-10TFL	100 kN	3.3 kHz	19 kg
LT-20TFH	LT-20TFL	200 kN	2.4 kHz	45 kg

For dimensions, contact us.