

LC210/LC210C/LC210AZ

LOAD CELL CONVERTER

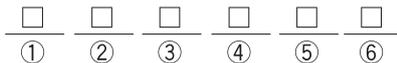


- Basic type
- Compact size: 44 mm (W) x 110 mm (H) x 110 mm (D)
- Simple design for a wide variety of applications and instrumentations.
- Built-in excitation voltage
- Current output: 4 to 20mA (LC210C)
- Auto zero (LC210AZ)

Specifications

Excitation voltage	10V DC $\pm 5\%$ Output current: within 30mA...Standard specification
Zero adjustment range	$\pm 0.25\text{mV/V}$ 20 turn trimmer potentiometer Expandable by external resistance connection if the above range is exceeded.
Gain adjustment range	1mV/V to 5mV/V (gain: 1000 times) ... Standard specification Maximum gain allows 1mV/V input to be 10V output. 20 turn trimmer potentiometer
Accuracy	Non-linearity within 0.02%/FS Zero drift within 0.01%/°C RTI (at 1mV/V input) Gain drift within 0.01%/°C
Output signal	Voltage output: 0 to $\pm 10\text{V}$ Load r-resistance: 1k Ω or more, Output resistance: 0.1 Ω or less Current output: 4 to 20mA Load resistance: 500 Ω or less (Optional LC210C: with current output)
Low-pass filter	Low-pass filter (-6dB/oct) 2Hz / -3dB...Standard specification
Calibration value	1mV/V $\pm 0.2\%$...Standard specification
Power supply voltage	100V AC $\pm 10\%$, 50/60 Hz
Power consumption	Approx. 5VA
Operating conditions	Working temperature range: -10 to +60°C (LC210, LC210C) 0 to +50°C (LC210AZ) Humidity: 85% RH or less (non-condensing)
External dimensions	44 (H) x 110 (H) x 110 (D) [mm] (protruding parts not included)
Weight	600 g
Accessories	AC input cord ... 1, Spare fuse(0.5A) ... 1, Mini-driver ... 1, Crimping terminal ... 11, Operation Manual ... 1
Electronic auto zero	Zero adjustment can be performed instantly by external control signal. Auto zero range: $\pm 10\text{V}$ ($\pm 5\text{V}$, $\pm 2\text{V}$, $\pm 1\text{V}$, Please specify when ordering.) ...LC210AZ external dimensions: 44 (W) x 110 (H) x 240 (D) [mm]

Structure of product code



① Standard unit

Model	Function
LC210	Standard
LC210C	LC210+ Current output function
LC210AZ	LC210+ Auto zero function

Current output and electronic auto zero function cannot be installed simultaneously

② Auto zero range(Only LC210AZ)

Sign	Auto zero range
Standard	$\pm 10\text{V}$
AZ= $\pm 5\text{V}$	$\pm 5\text{V}$
AZ= $\pm 2\text{V}$	$\pm 2\text{V}$
AZ= $\pm 1\text{V}$	$\pm 1\text{V}$

③ Filter

Sign	Filter
Standard	2Hz
F=10Hz	10Hz
F=100Hz	100Hz
F=1kHz	1kHz

④ Calibration value

Sign	Calibration value
Standard	1mV/V
C= 0.25mV/V	0.25mV/V
C= 0.5mV/V	0.5mV/V

⑤ Gain

Sign	Gain
Standard	1000
G=2000times	2000 times
G=3000times	3000 times

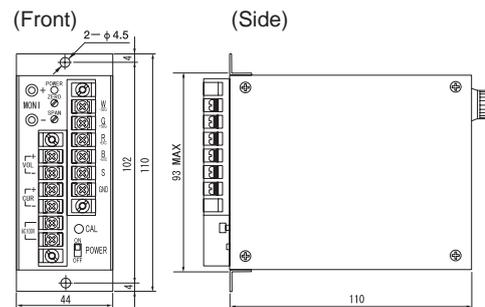
⑥ Excitation voltage

Sign	Excitation voltage
Standard	DC10V
B=DC3V	DC3V
B=DC5V	DC5V

External dimension

LC210 LC210C

Unit mm



LC210AZ

