

Load Cell Transmitter

- The strain bridge signal transmitter isolates and transmits weak voltage signals from various strain resistance bridge type force sensors to output standard voltage/current signals to the control room, PLC, DCS, and display instruments.
- Internally, efficient magnetolectric isolation technology is used, with input, output, and power sources isolated from each other, featuring high accuracy, high linearity, low temperature drift, and short response time.
- This product requires independent power supply; Adopting DIN35mm standard guide rail independent installation method (optional bus power supply function).

MODEL: UA-LCT-DC-A			
			Description
CHANNEL		X	1 IN 1 OUT
INPUT			0-10mV
			0-20mV
	X		0-30mV
			Customized
OUTPUT	X		4-20mA
			0-20mA
			0-5V
			0-10V
			±10V
			Customized
Power supply: DC 24V			

MAIN TECHNICAL PARAMETERS

Channel: 1 IN 1 OUT

Input:

Sensor type: Various strain resistance bridge type force sensors

Sensor sensitivity: 1mV/V; 2mV/V; 3mV/V

Sensor excitation voltage: DC 10V, ±1%

Sensor driving capability: 130mA. (Can be equipped with up to 4 350Ω sensors)

Output:

Output signal: 4-20mA; 0-20mA; 0-5V; 0-10V; ±10V.

Output load resistance:

$RL \leq 500\Omega$ (output is current signal)

$RL \geq 10K\Omega$ (output is voltage signal)

Power supply: DC 24V, voltage range: DC 18~36V

Consumption current:

≤60mA (24V, Input connected to 350Ω sensor, 20mA output)

Basic accuracy: ±0.1% F.S (20°C)

Temperature drift: ±0.01% F.S/°C (-20°C~+60°C)

Response time: ≤50mS (0-90%) (TYP)

Insulation strength: 2500VAC/1min (Among input, output and power)

Insulation resistance: ≥100MΩ, 500V DC

(Among input, output, shell and power)

Working temperature range: -20~+60°C

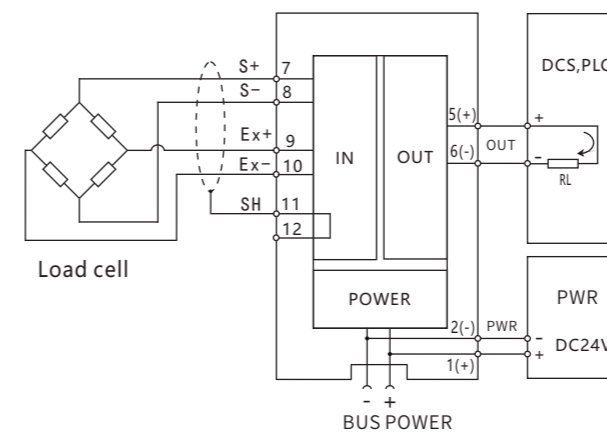
Electromagnetic compatibility: In accord with GB/T 18268.1 (IEC 61326-1)

Applicable on-site equipment: weighing sensors, S-type force sensors, spoke type sensors, etc.

Positive and negative bipolar voltage output supports tension and pressure bipolar measurement occasions.



WIRING DIAGRAM



Sensor

Wiring instructions:

S+ : Sensor signal input+

S- : Sensor signal input-

Ex+ : Excitation voltage output+

Ex- : Excitation voltage output-

SH : Sensor shielding layer

Note: The bus power supply function is optional. If necessary, please specify and purchase a bus power supply module separately when ordering.

OVERALL DIMENSION

