

### Description

**Input of analog load cells:**  
1~3mV/V,300~2000 Ohms.Device power up to 12 psc 350 Ohms load cells.

**Output:**standard RS232,  
Can connect to PC direct.

**Light insulation type**

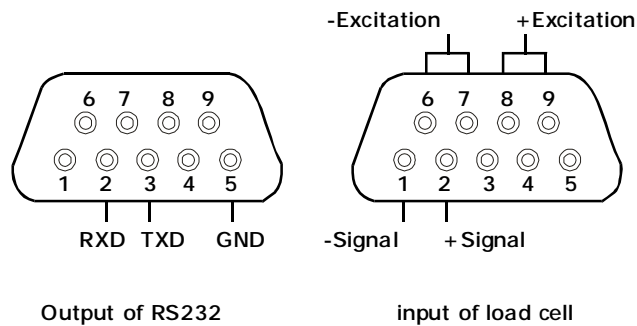
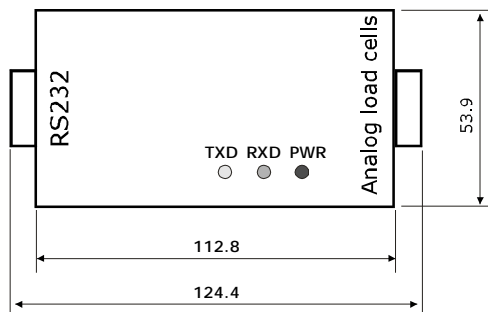
**Non-linearity compensation**

**And Filter treatment Exterior led show working order**



### Dimensions

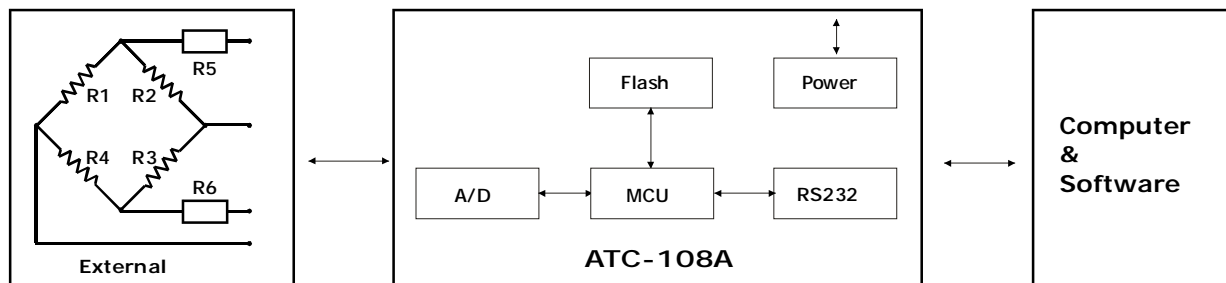
(1n mm. 1mm = 0.03937 inches)



### Work Principle

This is a based weighting solution,It can be used for either analog strtic weighing.No need the indicator,and it has a low cost.Usually,it connects the juncton box between the computer.

The signal of some analog load cells will be magnified after analog adding by the junction box, which will be dealt with by MCU after A/D conversion,then will output to PC by RS232 module. Please refer to following picture.



**Note:**

Multi-load cells should connect junction box then connect to ATC-108A.

## Specification

Item\ Parameter	C2	C3	UNIT
Rated load (E <sub>max</sub> ):	20kg~470t		kg,t,klb
Maximal numbers of load cell verification Intervals(N <sub>lc</sub> ):	2000	3000	d
Minimum load cell verification intervals (V <sub>min</sub> )	0.02	0.01	% of rated load
Sensitivity(C <sub>n</sub> ):	30,000 or 100,000		d
*Combined error:	0.027	0.015	± % of rated output
Temperature effect on sensitivity (T <sub>kc</sub> ):	0.0024	0.0012	± % of rated output/°C
Temperature effect on zero balance (T <sub>k0</sub> ):	0.002	0.0008	± % of rated output/°C
Resolution of A/D (for test load):	24 (at 1 Hz)		Bit
Resolution of A/D (for test temperature):	8 (at 1 Hz)		Bit
Measuring rate:	50/25		/Sec
Baudrate:	9600/19200		Bps
Filter mode 1:	3~0.05(Low pass filter)		HZ
Filter mode 0:	8~3(Low pass filter)		HZ
Zero balance:	1.0		± % of rated output
Insulation resistance:	≥5000		MΩ (Mega-Ohms)
Safe overload:	150		% of rated capability
Ultimate overload:	300		% of rated capability
Operating temperature range:	-20~+70/-20~+160		°C/°F
Recommend excitation:	7~12		V(Only DC)
Maximum excitation:	15		V(Only DC)
Material of elastomer:	Alloy steel / Stainless steel		
Protection class:	IP67/IP68		
Citation:	OIML R60 / GB7551-1997		

The data for deviation of synthesis error,TKo,TKc are typicl values.The sum of these data meets the require-ments according to OIML R60.The data will rest with the analog load cells.

## Communication

The ATC-108A is equipped with standard RS-232 output interface,it can communicate with commputer or connect to indicator.

Serial communication baud rate: 9600bps, 1 bit start bit, 8 bit data bit, 1 bit stop bit, no parity bit(use byte verify and mode verify).

STX	n	D	X1	X2	X3	X4	X5	X6	BCC	CR
02H	31H	44H	32H	3CH	35H	32H	30H	38H	32H	0DH



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