



**7130**  
**Digital Linear Gages**  
**Manual**



**产品介绍** Caution: Prevent liquid from getting into indicator to damage electronics

Dust/waterproof IP43, resolution 0.1µm

Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7130-10	0-12.5mm	0.5µm	1µm	horizontal	RS232, TTL level	
7130-10L	0-12.5mm	0.5µm	1µm	vertical	RS232, TTL level	
7130-11	0-12.5mm	0.5µm	1µm	horizontal	RS232, 232 level	
7130-11L	0-12.5mm	0.5µm	1µm	vertical	RS232, 232 level	
7130-12	0-12.5mm	0.5µm	1µm	horizontal	RS485(VCC+5V~12V)	
7130-12L	0-12.5mm	0.5µm	1µm	vertical	RS485(VCC+5V~12V)	
7130-13	0-12.5mm	0.5µm	1µm	horizontal	RS232, TTL level	
7130-13L	0-12.5mm	0.5µm	1µm	vertical	RS232, TTL level	
7130-14	0-12.5mm	0.5µm	1µm	horizontal	RS232, 232 level	
7130-14L	0-12.5mm	0.5µm	1µm	vertical	RS232, 232 level	

Dust/waterproof IP43, resolution 0.5µm

Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7130-20	0-12.5mm	1.5µm	3µm	horizontal	RS232, TTL level	
7130-20L	0-12.5mm	1.5µm	3µm	vertical	RS232, TTL level	
7130-21	0-12.5mm	1.5µm	3µm	horizontal	RS232, 232 level	
7130-21L	0-12.5mm	1.5µm	3µm	vertical	RS232, 232 level	
7130-22	0-12.5mm	1.5µm	3µm	horizontal	RS485(VCC+5V~12V)	
7130-22L	0-12.5mm	1.5µm	3µm	vertical	RS485(VCC+5V~12V)	
7130-23	0-12.5mm	1.5µm	3µm	horizontal	RS232, TTL level	
7130-23L	0-12.5mm	1.5µm	3µm	vertical	RS232, TTL level	
7130-24	0-12.5mm	1.5µm	3µm	horizontal	RS232, 232 level	
7130-24L	0-12.5mm	1.5µm	3µm	vertical	RS232, 232 level	

Dust/waterproof IP66, resolution 0.1µm

Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7130-30	0-12.5mm	0.5µm	1µm	horizontal	RS232, TTL level	
7130-30L	0-12.5mm	0.5µm	1µm	vertical	RS232, TTL level	
7130-31	0-12.5mm	0.5µm	1µm	horizontal	RS232, 232 level	
7130-31L	0-12.5mm	0.5µm	1µm	vertical	RS232, 232 level	
7130-32	0-12.5mm	0.5µm	1µm	horizontal	RS485(VCC+5V~12V)	
7130-32L	0-12.5mm	0.5µm	1µm	vertical	RS485(VCC+5V~12V)	
7130-33	0-12.5mm	0.5µm	1µm	horizontal	RS232, TTL level	
7130-33L	0-12.5mm	0.5µm	1µm	vertical	RS232, TTL level	
7130-34	0-12.5mm	0.5µm	1µm	horizontal	RS232, 232 level	
7130-34L	0-12.5mm	0.5µm	1µm	vertical	RS232, 232 level	

Dust/waterproof IP66, resolution 0.5µm

Code	Range	Repeatability	Accuracy	Outgoing cable direction	Output signal	Output interface
7130-40	0-12.5mm	1.5µm	3µm	horizontal	RS232, TTL level	
7130-40L	0-12.5mm	1.5µm	3µm	vertical	RS232, TTL level	
7130-41	0-12.5mm	1.5µm	3µm	horizontal	RS232, 232 level	
7130-41L	0-12.5mm	1.5µm	3µm	vertical	RS232, 232 level	
7130-42	0-12.5mm	1.5µm	3µm	horizontal	RS485(VCC+5V~12V)	
7130-42L	0-12.5mm	1.5µm	3µm	vertical	RS485(VCC+5V~12V)	
7130-43	0-12.5mm	1.5µm	3µm	horizontal	RS232, TTL level	
7130-43L	0-12.5mm	1.5µm	3µm	vertical	RS232, TTL level	
7130-44	0-12.5mm	1.5µm	3µm	horizontal	RS232, 232 level	
7130-44L	0-12.5mm	1.5µm	3µm	vertical	RS232, 232 level	



1. Absolute encoder, the original data remains after power off.  
 Digital signal output, amplifier is not required.  
 Dust/waterproof: IP43/IP66  
 Cable length: 3m (can be customized)

2. Signal output mode:  
 Communication mode: RS-232C (232 level/TTL level optional)/RS485 optional  
 Baud rate: 2400-115200bps optional (factory setting: 9600bps)  
 Check digit: None  
 Data bits: 8  
 Stop bit: 1  
 Output code: ASC II  
 Receive command code: hexadecimal single byte (for example: send 0x99 sensor to zero)

3. Connection method:  
 PC: a dedicated data cable is required (note: the driver needs to be installed on the PC)  
 PLC: M8 dedicated data cable is required  
 Remote display terminal: a dedicated data cable is required

4. Main commands:  
 Zero setting: 0x99  
 Data transmission(passive or active):0xdd(active transmission)/0xde(passive transmission)  
 Address setting: no need for actual communication, customization  
 For example: the host computer sends a hexadecimal number: 0x10 command.  
 The dial indicator or sensor will send a 9-digit data string after receiving it. If the current dial indicator shows -1.2345mm, send as acs code: 0X2D, 0X30, 0X31, 0X2E, 0X32, 0X33,0X34, 0X35, 0X0A The last bit is the end bit  
 If there is a set address (usually in 485 networking mode), the address is 0x69 (the address cannot be changed, it is directly engraved on the outside of the meter body). sending 0x10 will not respond, only the host computer will send: 0x69, the dial indicator will send address + data, such as: 69-1.2345mm, send as acs code: 0X36, 0X39, 0X2D, 0X30, 0X31,0X2E, 0X32, 0X33, 0X34, 0X35, 0X0A.

5. Pin definition (RS485 protocol):

Pin color	Symbol	Function
Red	VCC	Power(+5~12v)
Green	A+	Data
White	B-	Data
Black	GND	GND

