

PROZA ELECTRONIC TECHNOLOGIES

- OEM pressure sensor, pressure transmitters, melt pressure transmitters
- Intelligent pressure transmitters, differential pressure transmitters
- Hydraulic level transmitters
- Temperature sensors
- Load cells, load pins, force transducers
- Metal foil strain gauges, semiconductor strain gauges



PROZA TH-110H Leeb Hardness Tester



Specifications:

Parameters	Data
Measuring range	HLD (170-960), HRC (17.9-69.5), HB (19-683), HV (80-1042), HS (30.6-102.6), HRA(59.1-88), HRB (13.5-101.7)
Measuring direction	360°
Hardness Scale	HL, HB, HRB, HRC, HRA, HV, HS
Display	Dot matrix LCD, 128×64 dots
Data memory	100- max 600 groups. (relative to impact times 32~1)
Printing paper	width is (57.5±0.5)mm, diameter is 30mm
Battery pack	6V NI-MH
Battery charger	9V/500mA.
Continuous working period	about 200hours (With backlight off, no printing)
Interface	USB2.0

XI'AN PROZA ELECTRONIC TECHNOLOGY CO., LTD.

QiHangJiaYuan Plaza, Block A, 12# Building, Room 704,
FengDong New Town, Xi'an 710086, China.

Tel.: +86.29.8911 7729
Fax: +86.29.8911 7729

website: www.prozasensor.com
email: sales@prozasensor.com

PROZA ELECTRONIC TECHNOLOGIES

- OEM pressure sensor, pressure transmitters, melt pressure transmitters
- Intelligent pressure transmitters, differential pressure transmitters
- Hydraulic level transmitters
- Temperature sensors
- Load cells, load pins, force transducers
- Metal foil strain gauges, semiconductor strain gauges



Main features:

*Test at any angle, even upside down.

*User calibration function.

*Support "forged steel (Steel)" material, when using the D/DC impact device test "forged" sample, can read HB value directly, without the need for manual checking table.

*Seven impact devices are available for special application. Automatically identify the type of impact devices.

*Upper and lower limit can be preset. It will alarm automatically when the result value exceeding the limit.

*Battery information indicates the rest capacity of the battery and the charge status.

*USB port with the PC humanity multi-functions data proceeding software.

*Original imported high speed thermal printer support the immediate printing function. It can save data permanently.

*NI-MH rechargeable battery as the power source. Charge circuit integrated inside the instrument. Continuous working period of no less than 200 hours (EL off and no printing).

*Auto power off to save energy.

*Industrialized housing design, sturdy, compact, portable, high reliability, suitable for harsh operating environment, vibration, shock and electromagnetic interference.

*Excellent after-sale service system for high quality products-two years warranty and all life maintenance. Easy to buy and comfortable to use.

Standard configuration:

NO.	Configuration	QTY
1	Main Unit	1
2	D type impact device	1
3	Standard test block	1
4	Cleaning brush (I)	1
5	Small support ring	1
6	Battery Charger	1
7	Paper for printing	1
8	Manual	1
9	Data Pro software	1
10	Communication cable	1
11	Instrument case	1

XI'AN PROZA ELECTRONIC TECHNOLOGY CO., LTD.

QiHangJiaYuan Plaza, Block A, 12# Building, Room 704,
FengDong New Town, Xi'an 710086, China.

Tel.: +86.29.8911 7729
Fax: +86.29.8911 7729

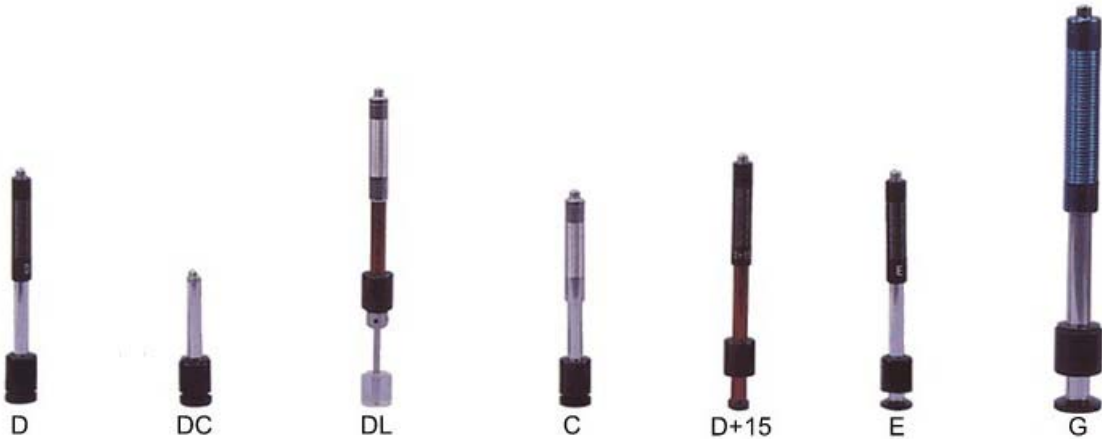
website: www.prozasensor.com
email: sales@prozasensor.com

PROZA ELECTRONIC TECHNOLOGIES

- OEM pressure sensor, pressure transmitters, melt pressure transmitters
- Intelligent pressure transmitters, differential pressure transmitters
- Hydraulic level transmitters
- Temperature sensors
- Load cells, load pins, force transducers
- Metal foil strain gauges, semiconductor strain gauges



Optional configuration for the hardness tester:



Type of impact device	DC(D)/DL	D+15	C	G	E	
Impacting energy	11mJ	11mJ	2.7mJ	90mJ	11mJ	
Mass of impact body	5.5g/7.2g	7.8g	3.0g	20.0g	5.5g	
Test tip hardness:	1600HV	1600HV	1600HV	1600HV	5000HV	
Dia. Test tip:	3mm	3mm	3mm	5mm	3mm	
Material of test tip:	Tungsten carbide	Tungsten carbide	Tungsten carbide	Tungsten carbide	synthetic diamond	
Impact device diameter:	20mm	20mm	20mm	30mm	20mm	
Impact device length:	86(147)/75m	162mm	141mm	254mm	155mm	
Impact device weight:	m 50g	80g	75g	250g	80g	
Max. hardness of sample	940HV	940HV	1000HV	650HB	1200HV	
Mean roughness value of sample surface Ra:	1.6μm	1.6μm	0.4μm	6.3μm	1.6μm	
Min. weight of sample:	>5kg	>5kg	>1.5kg	>15kg	>5kg	
Measure directly(need support)	2~5kg	2~5kg	0.5~1.5kg	5~15kg	2~5kg	
Need coupling tightly	0.05~2kg	0.05~2kg	0.02~0.5kg	0.5~5kg	0.05~2kg	
Min. thickness of sample						
Coupling tightly	5mm	5mm	1mm	10mm	5mm	
Min. layer thickness for surface hardening	≥0.8mm	≥0.8mm	≥0.2mm	≥1.2mm	≥0.8mm	
Size of tip indentation						
Hardness 300HV	Indentation diameter	0.54mm	0.54mm	0.38mm	1.03mm	0.54mm
	Depth of indentation	24μm	24μm	12μm	53μm	24μm
Hardness 600HV	Indentation diameter	0.54mm	0.54mm	0.32mm	0.90mm	0.54mm
	Depth of indentation	17μm	17μm	8μm	41μm	17μm
Hardness 800HV	Indentation diameter	0.35mm	0.35mm	0.35mm	--	0.35mm
	Depth of indentation	10μm	10μm	7μm	--	10μm

XI'AN PROZA ELECTRONIC TECHNOLOGY CO., LTD.

QiHangJiaYuan Plaza, Block A, 12# Building, Room 704,
FengDong New Town, Xi'an 710086, China.

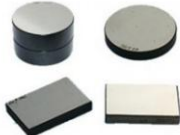

Tel.: +86.29.8911 7729
Fax: +86.29.8911 7729

website: www.prozasensor.com
email: sales@prozasensor.com

PROZA ELECTRONIC TECHNOLOGIES

- OEM pressure sensor, pressure transmitters, melt pressure transmitters
- Intelligent pressure transmitters, differential pressure transmitters
- Hydraulic level transmitters
- Temperature sensors
- Load cells, load pins, force transducers
- Metal foil strain gauges, semiconductor strain gauges



Application	DC type used to measuring hole or inside face of cylinder, DL type used to measuring elongated narrow slot or hole, D type for routine measurements.	Suitable for measuring surface of the trench or concave.	Suitable for measuring thin workpiece and harden surface.	Suitable for heavy or rough castings and forgings.	Suitable high hardness material.
		Various type of standard testing block		Connecting cable	

XI'AN PROZA ELECTRONIC TECHNOLOGY CO., LTD.

QiHangJiaYuan Plaza, Block A, 12# Building, Room 704,
FengDong New Town, Xi'an 710086, China.

Tel.: +86.29.8911 7729
Fax: +86.29.8911 7729

website: www.prozasensor.com
email: sales@prozasensor.com