

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 PZDM Series Main and Auxiliary Integrated Piston Dead Weight Tester



XI'AN PROZA ELECTRONIC TECHNOLOGY CO., LTD.

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Features:

- Comply with China national JJG59-2007<< Piston Pressure Dead Weight Tester>>
- Thanks to the standard dead weight tester and the calibrated dead weight tester are on the same calibration base, it is easy to operate.
- The piston rod and cylinder are made of tungsten carbide material with high strength, high hardness and low temperature expansion coefficient to improve the wear resistance of the piston, reducing the linear expansion coefficient and deformation coefficient of piston rod and cylinder.
- The hanging basket structure of the dead weight tester with 5~250bar and bigger than 5~250bar range features low center of gravity and excellent stability.
- Two digital display screens on the base, it is easy to read testing data accurately.

Main Functions:

- Calibrate other piston dead weight testers, pressure gauges, pressure transmitters, pressure switches and other pressure instruments.
- In the past, take the light project as benchmark. There was a visual error, which affected the accuracy of the piston area. Our company now designed a bracket displacement sensor to convert the light into a smart one, which improve the accuracy greatly.
- The elevating and retractable displacement bracket makes the bracket displacement sensor can calibrate the piston dead weight testers from different manufacturers.

Main Specifications:

- Model: PZDM-6, PZDM-60, PZDM-250, PZDM-600, PZDM-1000, PZDM-1600.
- Output pressure range: 0.4~6bar, 1~60bar, 5~250bar, 10~600bar, 20~1000bar, 20~1600bar, 50~2500bar (option on request) .
- Accuracy: 0.005%rdg ($\pm 0.005\%$ rdg), 0.01%rdg ($\pm 0.01\%$ rdg), 0.02%rdg ($\pm 0.02\%$ rdg), 0.05%rdg ($\pm 0.05\%$ rdg).

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- Materials of piston rod & cylinder: tungsten carbide.
- Materials of weights: Non-magnetic stainless steel (Grade 0.005, 0.01, 0.02), Carbon steel (Grade 0.05).
- Working liquid: Transformer oil or the mixed oil (transformer oil mixed with kerosene oil) , diisooctyl sebacate.

Technical Parameters:

Parameters		Unit	Data					
Model Nr.		/	PZDM-6	PZDM-60	PZDM-250	PZDM-600	PZDM-1000	PZDM-1600
Output Pressure Range		bar	0. 4~6	1~60	5~250	10~600	20~1000	20~1600
Nominal upper limit		bar	6	60	250	600	1000	1600
Nominal lower limit		bar	0.4	1	5	10	20	20
Upper limit of output pressure		bar	6	60	250	600	1000	1600
Lower limit of output pressure		bar	0.4	1	5	10	20	20
Nominal area of piston		cm ²	1	0.5	0.2	0.1	0.05	0.05
Carrier & piston	Nominal mass	Kg	0.4	0.5	1	1	1	1
	Produced pressure	bar	0.4	1	5	10	20	20
Supplied weights	Nominal mass	Kg	0.1; 0.5	0.5; 2.5	1; 2; 5	1; 2; 5	0.5; 1; 2; 5	0.5; 1; 2; 5
	Produced pressure	bar	0.1; 0.5	1; 5	5; 10; 25	10; 20; 50	10; 20; 10; 90	10; 20; 10; 150
	Quantity	unit	6; 10	4; 11	2; 1; 9	2; 1; 11	2; 11; 1; 9	1; 2; 1; 15
Pressure port		/	M20×1.5	M20×1.5	M20×1.5	M20×1.5	M20×1.5	M20×1.5

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Weight	Kg	45	70	90	100	91	110
Working liquid	/	Transformer oil or the mixed oil (transformer oil mixed with kerosene oil) at 20°C, the CSt is 9~12mm ² /s, Acid value ≤0.05KOHmg/g.		Diisooctyl sebacate at 20°C, the CSt is 20~25mm ² /s, Acid value ≤0.05KOHmg/g.			

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