PRODUCT TEST

No the labs TYRE PRESSURE GAUGES

Correct tyre pressures mean the difference between razor-sharp handling and jelly-like wobbling, so it's crucial to use an accurate gauge

Words Olly Crick Pictures Mark Manning



PRODUCT TEST



Howwedidit

Accuracy test However good your tyres are, they're not doing their job properly if they're not inflated to the correct pressure. Tyre temperature, contact patch size and rigidity are crucial for good handling and tyre pressure affects everv one.

Satra Technology Centre, an accredited laboratory, tested accuracy using a Druck DPI601 pressure calibrator - a measuring device accurate to within 0.01 pounds per square inch (psi). Performance was checked at 1. 5. 10. 20. 30. 40 and 50psi. By testing three examples of each gauge, we were also able to assess manufacturers' quality control. The scores reflect the average accuracy for all three gauges over the range of pressures tested.

Ease of use We tried the gauges on various bikes with different types of wheels to find how easy they are to push and seal onto the valve, whether they can get past two large discs on the front wheel of a sports bike, how easy they are to read and whether they're small enough to carry around. Ultraconvenience comes with gauges that enable the user to bleed air out of the tyre while leaving the gauge on the valve.

Build quality We looked at the finish and robustness. Marks were awarded for gauges fitted with some form of protective finish, to help them survive a bit of clumsiness. Where appropriate, we wiped plastic windows with petrol to see if they fogged up.

Know this

TOO MUCH PRESSURE and the tyre top speed, increase fuel won't flex. It'll run too cool and work the suspension hard. It will have a small contact patch and give less grip. Your bike will feel skittish

Reducing pressure to increase grip also has limits. Too low a pressure means the tyre won't have the rigidity to maintain a stable contact patch. An excessively soft tyre will overheat, cause the bike to weave, reduce

consumption and wear quickly. Check pressures at least once a week when tyres are cold, using the same gauge every time. Aand if the worst should happen, the police will check tyre pressures at the scene of an accident and compare them with the manufacturer's recommendations. Their findings can be used as prosecution

1= Weldtite

Price £6.35 Contact 08704 282272 www.bickersplc.com

Tester's notes

Excellent performance and excellent value. The average accuracy over the complete range tested was within 0.3psi. The working range is 6-50psi in 1psi increments and 0.5-3.4bar in 0.1bar increments. There's a valve removing/tightening key in the cap and a pocket clip on the body. It's more accurate than the Draper pencil, which is surprising because they look like they come out of the same factory.

Accuracy			8710
Ease of use			9/10
Build quality			9/10
Total			26/3

1= Snap-On Blue-Point Price 629.90

Contact

www.snapon.com/uk

Tester's notes

Graduated in 1psi intervals over a range of 4-100psi, and easily readable to 0.5psi. The sturdy design includes a brass bleed valve and a 'reading hold' feature. It's easy to locate and seal onto the valve with a flexible hose that swivels at both ends. Good accuracy over the entire range with an average error of 0.3psi. The brass Bourdon mechanism will give accurate readings time and time again over years. Occuracy.

Accuracy			8/10
Easeofuse			9/10
uild quality			9/10
Total			26/3

3= Draper with flexible hose Price 612.69

Contact 023 8026 6355 www.draper.co.uk

Tester's notes

The brass bleed valve and swivelling. angled head have a high-quality feel, and there's a robust rubber-housed dial. It's simple to locate and read thanks to its 250mm flexible braided hose. The accuracy is good, with an average error of 0.7psi over the complete range tested. It's graduated 5-100psi in 1psi increments. although it's readable to 0.5psi, and 0.3-7bar in 0.1bar increments.

Accuracy			6/10
	•		
Ease of use			9/10
2020.0.020			
Build quality			9/10
Doild Rodier			
Total			24/3
10101		 	

3= Halfords mini digital Price £4.99

Contact www.halfords.com

Tester's notes

Ac

Ease

Build

BEST BUY

26/30

This low-priced digital gauge is designed to be thrown away once the battery has worn down. It has an automatic on/off switch and a working range of 5-60psi with 1psi resolution. Its small size makes it easy to carry in a pocket and easy to use on most bikes. It good acc average

seals on tyr :uracy for si error being	uch a sma		A	r	
curacy					8/10
curaci					
ofuse					9/10
quality					7/10
Total					24/30

5= Motrax digital keyring

Price £9.99 Contact 01933 418414 www.motrax.co.uk

Tester's notes

It's designed to fit on a key ring, although the clip mechanism doesn't look like it'll take much knocking around. Digital LCD readings are possible in psi, bar, kPa and kg/cm squared. The range is 2-150 psi with 0.5psi resolution. Easy to use due to its small size, and the accuracy is good with an average error of 0.4psi.







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gauge - one of our three gauges was perfectly accurate, the other two just 0.5psi out on one reading each. The range is 0-100psi in 0.5psi increments and it also reads in bar, kg/cm squared and kPa. It features a bleed valve and is reasonably easy to use but would be better with a swivelling hose end



Accuracy			9/10
Easeofuse			7/10
Build quality			7/10
Total			23/30



PRODUCT TEST



12= Tech 7

Price 88.99 Contact 0844 815 6571 www.mandp.com

Tester's notes

No working range is stated but ours went up to 75psi (the maximum we dare inflate to) without problem. It reads pressure in psi, kPa and bar, with resolution to 0.5psi. It's reasonably easy to manoeuvre between front discs but the handle is ineffective the gauge needs a good push down on the head right on top of the valve. Accuracy is reasonable, with the average error 0.5psi.

Accuracy				7/18
Easeofuse				7/19
Build quality				7/10
Total				21/3

12= Draper digital Price 618.19

Contact 023 8026 6355 www.draper.co.uk

Tester's notes

The display is backlit, but the bulky handle is a pain to manoeuvre between twin front brake discs - locating it on the valve and achieving a good seal is tricky. The range is 2 to 99.5psi in 0.5psi increments, and it also reads in kPa and 0.15-7bar in 0.05bar increments. There's good accuracy, with an average of 0.2psi out over the complete range tested. It comes with a 3V lithium long-life battery.

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Accuracy			8/10
Easeofuse			6/10
Build quality			7/10
Total			21/30

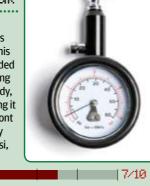
12= Hein Gericke analogue

Price £8.99 Contact 0800 16516

www.hein-gericke.co.uk

Tester's notes

Reads from 3 to 60psi in 1psi increments and 0.2 to 4 bar in 0.1bar increments, this analogue gauge has a robustness provided by a rubber-covered dial. A valve bleeding pip on the pressure reading head is handy. but the head itself doesn't rotate, making it awkward to locate and seal with twin front brake discs. Accuracy is fair, particularly over 30psi, with the average error 0.4psi, and good consistency between gauges.



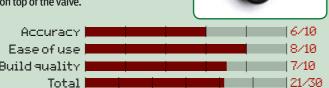
Accuracy Ease of use 9/10 Build quality Total 21/30

12= Oxford Air Gange

Pricet9.99 Contact 01993 862300 www.oxprod.com

Tester's notes

This gauge reads in psi with 0.5psi resolution, plus kPa and bar. There's no working range stated but ours went up to 75psi (the maximum we dare inflate to). The average error is 0.9psi. It's reasonably easy to use and locate between front discs but the handle is ineffective as the gauge needs a good push down on the head right on top of the valve.



4/10 9/10 6/10 19/30

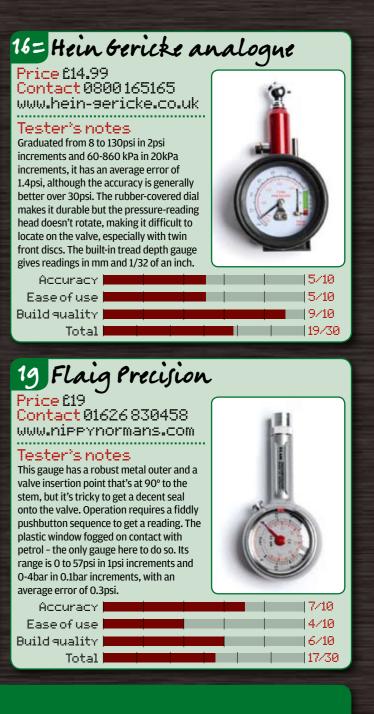
18 sealey tyre pressure and Price C23.44 Contact 01284 757500 www.sealey.co.uk Tester's notes This gauge has a working range from zero to 99.5psi with 0.5psi resolution; it also reads in bar, kPa and kg/cm squared. Average accuracy was to within 1.2psi, the biggest single error being 3.5psi at a test pressure of 50psi. The LCD display is backlit and there's a tyre depth tread measure. The bulky handle means it's awkward to locate onto front tyre valves with twin brake discs. 5/10 Accuracy Ease of use 6/19 7/10 Build quality Total 18/30

THE VERDICT

ou can't argue with good accuracy and consistency in a pocket-size package - especially not for as little as £6.35. So the traditionally styled, easy-to-use Weldtite is this month's Best Buy. The more expensive Snap-On Blue-Point is recommended for a similarly brilliant performance, and it has the quality that makes it the choice of professionals. We were pleasantly surprised by the good overall accuracy of most gauges



TYRE PRESSURE GAUGES



in this test - an average error of 1psi or less is next to nothing and shouldn't affect handling. You can use those gauges with confidence.

NEXT MONTH

All-season boots - the reason RiDE testers aren't complaining about any wet weather. Don't splash out on any waterproof footwear until you've read this.