



Digital Knockmeter

Digital replacement for analog knockmeters for use with Octane Rating Units

Analog knockmeters have limitations. Their range is limited between 0 and 100 and the linearity from meter to meter is questionable after our research. There is human interaction with an analog meter to determine where the needle lies along the sweep of the range. To tackle these variables, a simple-to-use digital alternative was developed to make octane rating procedures simpler.

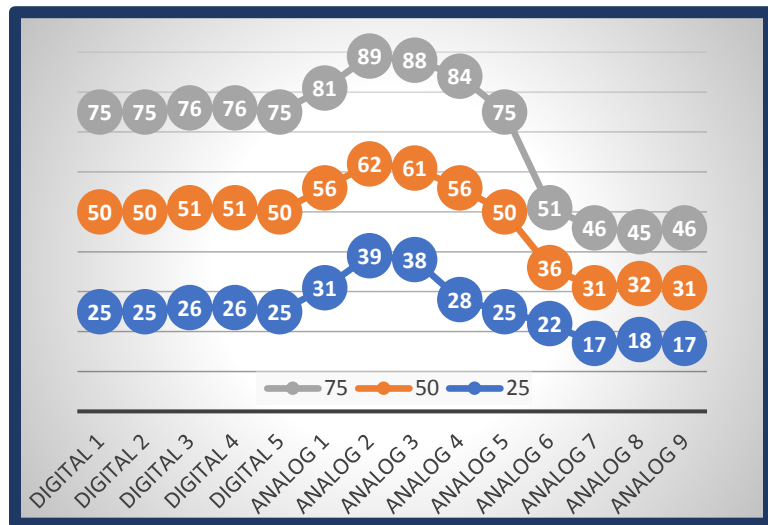


Key features:

- Large, easy-to-read display that is visible up to 100 feet away. Digits are 2.5 inches in height.
- Capable of achieving higher knock intensities than traditional equipment. Digital knockmeters have the capacity to reach input knock signals of 999.9 intensity.
- Digital knockmeters are easily calibrated and track linearly throughout their entire range.
- Comparing digital meters between one another reveals an identical relationship. Analog knockmeters do not have this same relationship.

The first 5 data sets represent the digital knockmeter outputs based on controlled and static inputs. Each meter is checked to see that there is a linear relationship going between 25, 50, and 75 KI.

When comparing the analog counterparts, many were either not linear throughout the scope of their range or were not consistent from meter to meter when comparing those of the same manufacturer.



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