

PM175 Power Quality Analyzer
Flicker Accuracy Testing

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The RM175 Analyzer was tested with device of
Fluke 6100A Electrical Power Standard

Performance testing

N	Rectangular changes per minute/Frequency, Hz	Fluctuation $\Delta U/U$, %	Reference Flicker Pst	PM175 Flicker	
				Pst	Error, %
1	1620/13.5	0.402	1.0	0.99	2.0
2	110/0.9166	0.725	1.0	0.99	2.0
3	1/0.0833	2.724	1.0	1.02	4.0
4	1/0.0833	8.124	3.0	3.15	5.0

According to 61000-4-15 Standard the flicker error should be less of $\pm 5\%$.

Flicker response for sinusoidal voltage fluctuation

Frequency, Hz	Fluctuation $\Delta U/U$, %	Reference Flicker Pst	PM175 Flicker	
			Pst	Error, %
13.0	0.348	0.719	0.719	0

Flicker response for rectangular voltage fluctuation

Frequency, Hz	Fluctuation $\Delta U/U$, %	Reference Flicker Pst	PM175 Flicker	
			Pst	Error, %
13.0	0.275	0.719	0.72	0.14

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