

# TYPE Approval IEC 61000-4-15 Flickermeter

Manufacturer: DEWETRON  
 Device: DEWE2/3  
 Software: OXYGEN 6.2.0

The Procedure uses a simulated signal generated by the software itself with the formula module with a sampling rate of 200 kS/s.  
 The Pinst,max values are read after the filter is settled (20 s)  
 The Pst values are read 10 min after the filter is settled

230V / 50 Hz	IEC 61000-4-15, Tab 1b (sine)		IEC 61000-4-15, Tab 2b (rectangular)		IEC 61000-4-15, Tab 5 (rectangular)		
f Hz	$\Delta U/U$ %	Pinst,max	$\Delta U/U$ %	Pinst,max	r min-1	$\Delta U/U$ %	Pst
0.5	2.325	1.035	0.509	1.004	1	2.715	0.990
1.5	1.067	1.017			2	2.191	0.992
3.5			0.342	0.993	7	1.45	0.994
8.8	0.25	0.998	0.196	0.995	39	0.894	0.995
18			0.446	0.994	110	0.722	0.996
20	0.704	0.995			1620	0.407	0.995
21.5			0.592	0.994	4000	2.343	0.995
25	1.037	0.993	0.764	0.994	<b>Functional Test</b>		
28			0.915	0.994	0.100	< Pst <	50.000
30.5			0.847	0.996	<b>Frequency Change, Tab 6</b>		
33.33	2.128	0.993	1.671	0.993	Pinst,max	0.993	
<b>Result:</b> This Device/Software complys to accuracy requirements in section 5 and 6 in IEC 61000-4-15:2010  Date: 07.07.2022					<b>Distorted Voltage, Tab 8</b>		
					Pinst,max	1.008	
					<b>Input Bandwidth, Tab 9</b>		
					f <sub>v,max</sub>	600.000	
					<b>Phase Jumps, Tab 10</b>		
					$\Delta\beta$	<b>Pst,ref</b>	<b>Pst</b>
					$\pm 30^\circ$	0.863 to 0.963	0.903
					$\pm 45^\circ$	1.007 to 1.113	1.046
					<b>Power On, Tab 11</b>		
					Pst	0.993	
<b>Nominal Voltage Variation</b>							
f	$\Delta U/U$	100 V	400 V	1000 V	3000 V	12000 V	20000 V
Hz	%	Pinst,max	Pinst,max	Pinst,max	Pinst,max	Pinst,max	Pinst,max
8.8	0.25	0.995	0.995	0.998	0.998	0.995	0.998

Setpoint: Pinst,max = 1.000 ± 5%; Pst = 1.000 ± 5%

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230V / 60 Hz	IEC 61000-4-15, Tab 1b (sine)		IEC 61000-4-15, Tab 2b (rectangular)		IEC 61000-4-15, Tab 5 (rectangular)		
f Hz	$\Delta U/U$ %	Pinst,max	$\Delta U/U$ %	Pinst,max	r min-1	$\Delta U/U$ %	Pst
0.5	2.325	1.035	0.51	1.004	1	2.719	0.990
1.5	1.067	1.016			2	2.194	0.992
3.5			0.342	0.995	7	1.45	0.994
8.8	0.25	0.998	0.196	0.995	39	0.895	0.996
18			0.457	0.998	110	0.723	0.997
20	0.703	0.995			1620	0.409	0.996
22			0.611	0.996	4800	3.263	0.996
25.5			0.768	0.996	<b>Functional Test</b>		
33.33	1.758	0.996	1.258	0.996	0.100	< Pst <	50.000
37			0.975	0.997	<b>Frequency Change, Tab 6</b>		
40	2.963	0.995	2.327	0.995	Pinst,max	0.993	
<b>Result:</b> This Device/Software complies to accuracy requirements in section 5 and 6 in IEC 61000-4-15:2010  Date: 07.07.2022					<b>Distorted Voltage, Tab 8</b>		
					Pinst,max	1.007	
					<b>Input Bandwidth, Tab 9</b>		
					f <sub>v,max</sub>	720.000	
					<b>Phase Jumps, Tab 10</b>		
					$\Delta\beta$	<b>Pst,ref</b>	<b>Pst</b>
					$\pm 30^\circ$	0.710 to 0.810	0.753
					$\pm 45^\circ$	0.832 to 0.932	0.872
					<b>Power On, Tab 11</b>		
					Pst	0.994	
<b>Nominal Voltage Variation</b>							
f	$\Delta U/U$	100 V	400 V	1000 V	3000 V	12000 V	20000 V
Hz	%	Pinst,max	Pinst,max	Pinst,max	Pinst,max	Pinst,max	Pinst,max
8.8	0.25	0.995	0.995	0.998	0.998	0.995	0.998

Setpoint: Pinst,max = 1.000 ± 5%; Pst = 1.000 ± 5%

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120V / 50 Hz	IEC 61000-4-15, Tab 1a (sine)		IEC 61000-4-15, Tab 2a (rectangular)		IEC 61000-4-15, Tab 5 (rectangular)		
f Hz	$\Delta U/U$ %	Pinst,max	$\Delta U/U$ %	Pinst,max	r min-1	$\Delta U/U$ %	Pst
0.5	2.453	1.040	0.597	1.009	1	3.178	0.994
1.5	1.126	1.023			2	2.561	0.995
3.5			0.408	1.002	7	1.694	0.997
8.8	0.321	1.003	0.252	1.002	39	1.045	0.999
18			0.611	0.997	110	0.844	1.000
20	0.978	0.999			1620	0.545	0.997
21.5			0.82	1.000	4000	3.426	0.998
25			1.087	0.999	<b>Functional Test</b>		
28			1.303	0.999	0.100	< Pst <	50.000
30.5			1.144	1.001	<b>Frequency Change, Tab 6</b>		
33.33	3.111	0.996	2.443	0.997	Pinst,max	0.999	
<b>Result:</b> This Device/Software complys to accuracy requirements in section 5 and 6 in IEC 61000-4-15:2010  Date: 07.07.2022					<b>Distorted Voltage, Tab 8</b>		
					Pinst,max	1.013	
					<b>Input Bandwidth, Tab 9</b>		
					fv,max	600.000	
					<b>Phase Jumps, Tab 10</b>		
					$\Delta\beta$	<b>Pst,ref</b>	<b>Pst</b>
					$\pm 30^\circ$	0.656 to 0.756	0.702
					$\pm 45^\circ$	0.769 to 0.869	0.813
					<b>Power On, Tab 11</b>		
					Pst	0.996	
<b>Nominal Voltage Variation</b>							
f	$\Delta U/U$	100 V	400 V	1000 V	3000 V	12000 V	20000 V
Hz	%	Pinst,max	Pinst,max	Pinst,max	Pinst,max	Pinst,max	Pinst,max
8.8	0.25	1.000	1.000	1.003	1.003	1.000	1.003

Setpoint: Pinst,max = 1.000 ± 5%; Pst = 1.000 ± 5%

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 The Pinst,max values are read after the filter is settled (20 s)  
 The Pst values are read 10 min after the filter is settled

120V / 60 Hz	IEC 61000-4-15, Tab 1a (sine)		IEC 61000-4-15, Tab 2a (rectangular)		IEC 61000-4-15, Tab 5 (rectangular)		
f Hz	$\Delta U/U$ %	Pinst,max	$\Delta U/U$ %	Pinst,max	r min-1	$\Delta U/U$ %	Pst
0.5	2.453	1.039	0.598	1.009	1	3.181	0.994
1.5	1.126	1.022			2	2.564	0.995
3.5			0.408	1.002	7	1.694	0.997
8.8	0.321	1.003	0.252	1.002	39	1.04	0.994
18			0.626	0.999	110	0.844	0.999
20	0.977	0.999			1620	0.548	0.999
22			0.851	1.000	4800	4.837	0.998
25	1.464	1.000			<b>Functional Test</b>		
25.5			1.072	1.001	0.100	< Pst <	50.000
33.33	2.57	1.000	1.823	0.999	<b>Frequency Change, Tab 6</b>		
37			1.304	1.000	Pinst,max	1.001	
40			3.451	1.000	<b>Distorted Voltage, Tab 8</b>		
<b>Result:</b> This Device/Software complys to accuracy requirements in section 5 and 6 in IEC 61000-4-15:2010  Date: 07.07.2022					Pinst,max	1.012	
					<b>Input Bandwidth, Tab 9</b>		
					f <sub>v,max</sub>	720.000	
					<b>Phase Jumps, Tab 10</b>		
					$\Delta\beta$	<b>Pst,ref</b>	<b>Pst</b>
					$\pm 30^\circ$	0.537 to 0.637	0.584
					$\pm 45^\circ$	0.631 to 0.731	0.676
					<b>Power On, Tab 11</b>		
					Pst	0.996	
					<b>Nominal Voltage Variation</b>		
f	$\Delta U/U$	100 V	400 V	1000 V	3000 V	12000 V	20000 V
Hz	%	Pinst,max	Pinst,max	Pinst,max	Pinst,max	Pinst,max	Pinst,max
8.8	0.25	1.000	1.000	1.003	1.003	1.000	1.003

Setpoint: Pinst,max = 1.000 ± 5%; Pst = 1.000 ± 5%