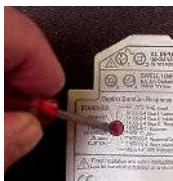


PQ1 Grenzwertkurven

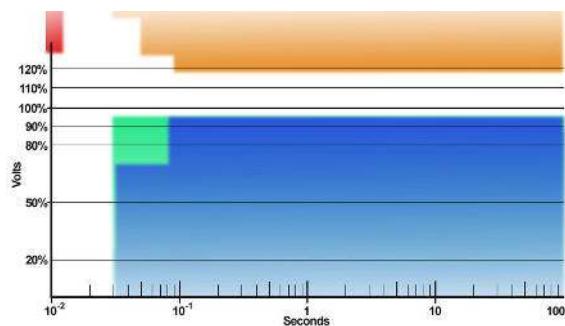


Die Amplituden und Dauer Grenzwertkurven des PQ1 sind von internationalen Normen abgeleitet. Mit dem Drehschalter an der Seite des PQ1 können die Grenzwerte ausgewählt werden.

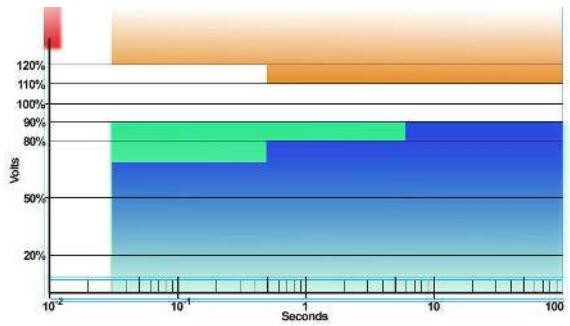
Sollten bestimmte Vorgaben fehlen wird der Schalter auf "STANDARD" eingestellt.

Gibt es in einer Norm einen Grenzwert nicht (z.B. SEMI F47 definiert keinen Grenzwert für Überhöhungen) oder wenn ein Grenzwert außerhalb des Arbeitsbereiches des PQ1 liegt, wurde ein sinnvoller Wert eingesetzt.

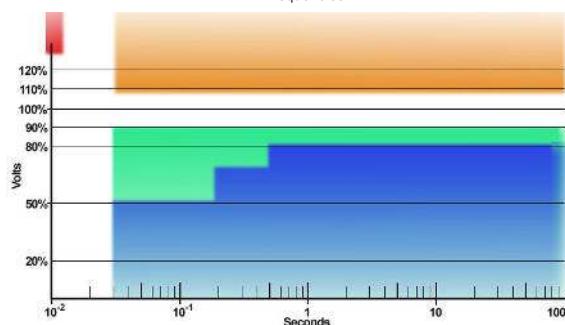
Die Amplituden und Dauer Grenzwertkurven basieren auf den angeführten Normen, können aber aus verschiedenen Gründen von diesen geringfügig abweichen. Für weitere Informationen schlagen sie in den jeweiligen Normen nach.



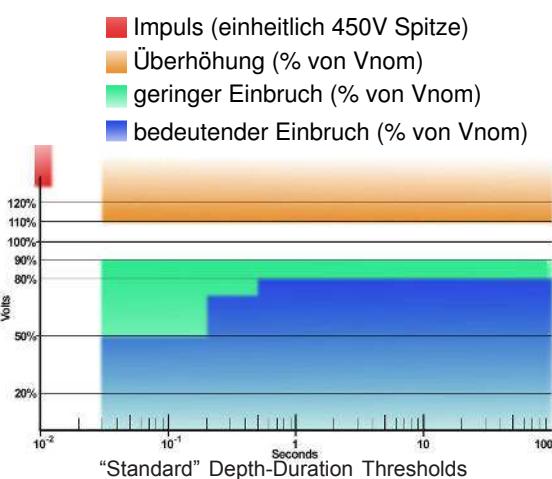
"MIL-STD-704E (Aircraft)" Depth-Duration Thresholds
Derived from MIL-STD-704E, "Interface Standard: Aircraft Electric Power Characteristics," Figure 4 and Figure 6. This standard does not directly specify impulse thresholds.



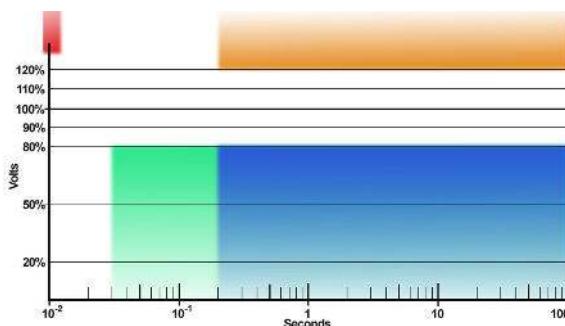
"ITIC" Depth-Duration Thresholds
Derived from the ITI Curve (revised 2000) published by Technical Committee 3 of Information Technology Industry. Original curve for to single-phase 120V 60 Hz computer and business equipment; extended here to other voltages and frequencies.



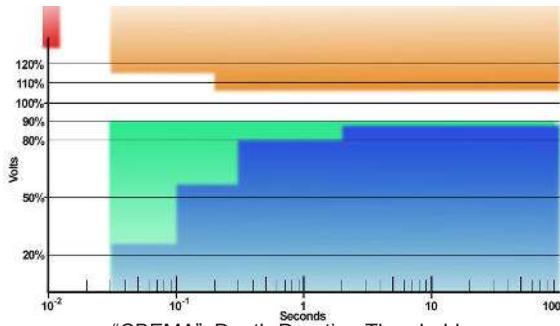
"SEMI F47" Depth-Duration Thresholds
Based on SEMI F47-0200 ©SEMI 1999/2000. Standard lacks swell thresholds, impulse threshold. Thresholds in PQ1 include both Recommendations and Requirements in standard to the extent practical.



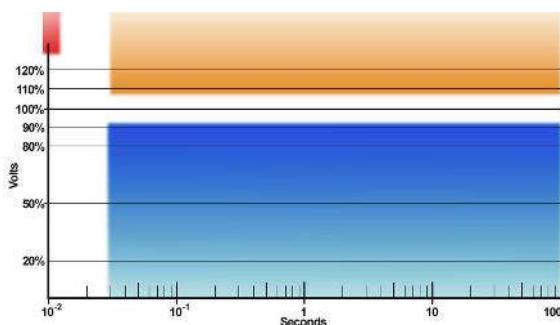
"Standard" Depth-Duration Thresholds
General purpose thresholds selected by PSL. Good compromise between sensitivity and false alarms.



"MIL-STD-1399 (Shipboard)" Depth-Duration Thresholds
Derived from MIL-STD-1399 "Interface Standard for Shipboard Systems - Section 300A - Electric Power, Alternating Current," Table I, Type II power. This standard specifies a 1kV threshold for impulses, which differs from the 0.5kV impulse threshold in the PQ1.



"CBEMA" Depth-Duration Thresholds
Based on version published in IEEE 1100-1992, Fig 3-2. Thresholds in the original curve are expressed in percent of nominal. Curve is intended to apply to single-phase 120V 60 Hz computer and business equipment, extended here to other voltages and frequencies.



"IEC 61000-2-4 Class I (Laboratory)"
Depth-Duration Thresholds

Derived from IEC 61000-2-4, CDV 11-2000, Section 6 Table 1. This standard does not specify voltage swell or impulse thresholds, which are discussed in Annex B.4. Standard does not specify dip compatibility levels; values are given for guidance only.

PQ1 Power Quality Sensor

