

Firmware modules for function expansion for UMD measuring devices

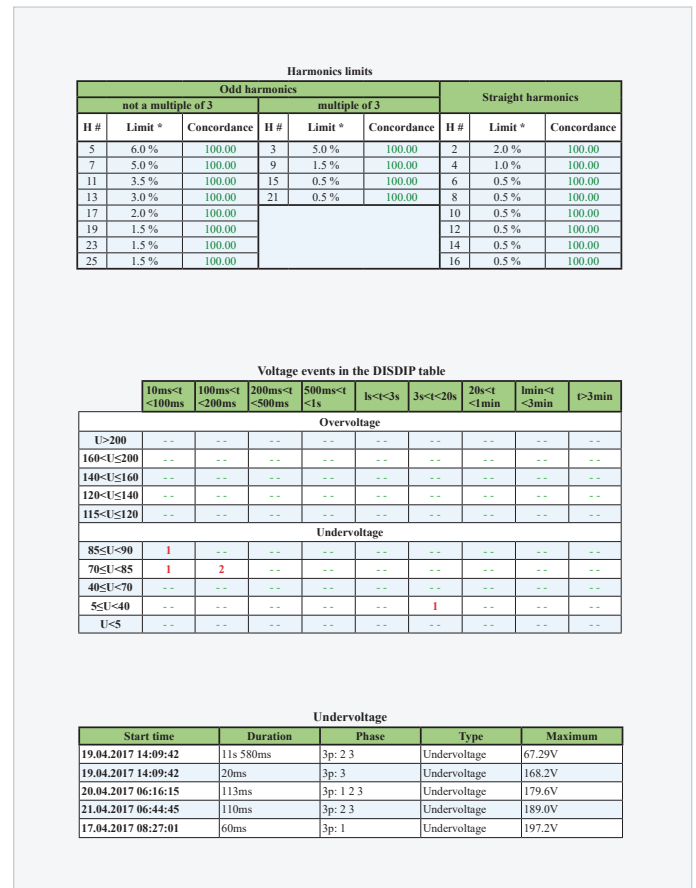
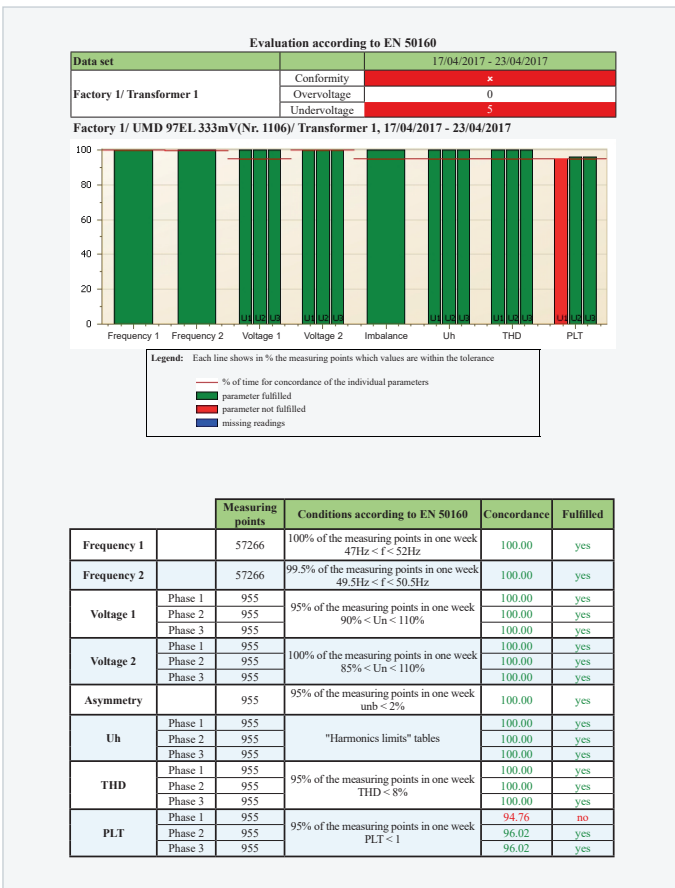
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PQ A / PQ S (Power Quality in Class A / Class S)

These modules are for recording and evaluating the measured values according to EN 50160 or EN 61000-2-2, EN 61000-2-4, EN 61000-2-12. It extends the measurement to include flicker, voltage dips and interharmonics. The evaluation is stored in its own PQ archive.

Limit violations and voltage events (overvoltages, undervoltages, voltage interruptions) can be archived in a separate archive. Devices with this module become class A or class S power quality analysers according to IEC 61000-4-30.



PQ Main archive (last 10000 rows) 11.01.2021 00:00:00 - 17.03.2021 10:00:00

Fulfilled	Week	f	1	2	3	U	Unb	THD	Harmonic	Flicker Pit
Yes	22.02.2021	100	100	100	100	100	100	100	100	100
Yes	15.02.2021	100	100	100	100	100	100	100	100	100
Yes	08.02.2021	100	100	100	100	100	100	100	100	100
Yes	01.02.2021	100	100	100	100	100	100	100	100	100
Yes	25.01.2021	100	100	100	100	100	100	100	100	100
Yes	18.01.2021	100	100	100	100	100	100	100	100	100
Yes	11.01.2021	100	100	100	100	100	100	100	100	99,8

Voltage events

Voltage [%]	10ms<t<200ms	200ms<t<500ms	500ms<t<1s	1s<t<5s	5s<t<60s	t>60s
u<=120	0	0	0	0	0	0
120>u<=110	0	0	0	0	0	0
90>u<=80	2	1	0	0	0	0
80>u<=70	2	0	1	0	0	0
70>u<=40	2	1	0	0	0	0
40>u<=5	0	1	0	0	0	0
S>u	0	0	0	0	0	1



PQ - Voltage dips

U<%	0.2	0.5	1	5	60s
90					
80					
70					
40					
5					

U>%	0.5	5	60s	Delete
120	4			06.03.17
110	1			17:54:39

Designation	Description	Availability	Order no.
PQ A	DIN EN 50160 Cl. A	See technical specifications	52.22.1340
PQ S	DIN EN 50160 Cl. S	See technical specifications	52.21.1340