

DNMS Teensy4.0 standalone test program

Version: DNMS Version t.5.6 for IM72D128 microphone

output of all data every: 24 x 125ms - the default output period  
you can change the output period by inputting now a different multiplication factor of the 125ms measurement interval  
if you do no input within the next 5 seconds the default factor 24 will apply, which gives an output period of 3 seconds

the output of values from left to right is: LZeq, LZmin, LZmax, followed by the 31 1/3 octave values from 20Hz up to 20.000Hz  
the LA-values are given in the next line  
if the output period is less than 1000ms, the 1/3 octave values are not output

time period multiplication factor is:24  
therefore output period is:3000 ms

LZ,	39.2,	34.8,	41.1,	29.6,	28.7,	27.5,	30.4,	30.5,	24.8,	22.5,	23.2,	24.9,	21.7,	24.8,	24.7,	16.9,	16.9,	16.5,	14.3,	13.4,	11.6,	15.3,	16.5,	14.4,	11.2,	11.1,	14.1,	12.9,	12.6,	13.6,	11.3,	10.1,	8.0,	6.4
LA,	26.6,	23.4,	29.0,	-20.6,	-15.9,	-11.5,	-3.6,	-0.3,	-1.3,	-0.0,	4.1,	9.2,	8.3,	13.9,	15.8,	10.2,	12.3,	13.3,	12.4,	12.5,	11.6,	15.9,	17.4,	15.6,	12.4,	12.3,	15.0,	13.5,	12.5,	12.5,	8.9,	5.8,	1.6,	-3.0
LZ,	38.6,	34.6,	41.9,	29.4,	27.5,	28.9,	28.8,	30.0,	26.4,	24.8,	22.3,	25.3,	21.2,	25.2,	23.7,	15.6,	15.9,	15.2,	13.5,	12.9,	11.9,	13.3,	12.3,	12.5,	10.7,	11.4,	13.4,	12.2,	12.6,	12.9,	10.7,	9.4,	8.3,	6.8
LA,	25.6,	23.8,	28.7,	-20.5,	-16.8,	-10.6,	-5.0,	-0.4,	0.5,	1.9,	3.2,	9.5,	8.1,	14.5,	14.8,	9.0,	11.2,	11.9,	11.7,	12.1,	11.9,	13.9,	13.2,	13.7,	11.9,	12.5,	14.3,	12.7,	12.4,	11.8,	8.3,	5.2,	1.9,	-2.6
LZ,	39.5,	36.0,	42.8,	28.6,	28.9,	30.7,	28.9,	28.8,	26.3,	22.9,	22.6,	25.4,	20.2,	24.1,	23.4,	15.5,	16.5,	15.6,	15.0,	12.7,	10.6,	11.9,	11.5,	11.2,	10.1,	10.4,	12.0,	11.4,	11.6,	12.4,	10.1,	8.8,	7.5,	6.1
LA,	25.1,	24.0,	27.3,	-21.5,	-15.2,	-8.6,	-5.9,	-1.8,	0.1,	0.3,	3.5,	9.7,	7.1,	13.3,	14.4,	8.9,	11.8,	12.4,	13.1,	11.8,	10.6,	12.5,	12.5,	12.4,	11.3,	11.6,	12.9,	11.9,	11.5,	11.3,	7.7,	4.6,	1.1,	-3.3
LZ,	44.7,	36.3,	51.9,	35.8,	28.9,	28.7,	33.3,	33.1,	28.9,	28.3,	23.6,	25.7,	22.1,	25.2,	24.9,	15.8,	15.7,	15.1,	13.0,	12.5,	11.0,	10.3,	10.0,	10.0,	9.9,	10.3,	11.9,	11.3,	11.8,	12.6,	10.3,	9.0,	8.1,	6.4
LA,	25.0,	24.1,	26.1,	-14.7,	-15.7,	-10.6,	-0.8,	3.0,	3.5,	5.1,	4.5,	9.9,	9.0,	14.4,	15.8,	9.2,	11.0,	11.8,	11.1,	11.6,	11.0,	10.9,	10.9,	11.2,	11.2,	11.5,	12.9,	11.9,	11.6,	11.5,	7.9,	4.7,	1.8,	-3.0
LZ,	38.8,	35.6,	42.1,	29.5,	29.3,	29.2,	29.7,	28.2,	25.9,	23.3,	22.6,	25.9,	21.0,	24.6,	23.7,	16.9,	16.4,	15.9,	14.5,	13.4,	16.0,	18.3,	16.9,	19.8,	13.2,	13.3,	13.0,	11.9,	11.7,	12.4,	10.3,	8.9,	7.7,	6.2
LA,	27.8,	23.6,	38.3,	-20.7,	-14.9,	-10.1,	-5.0,	-2.1,	-0.6,	0.9,	3.5,	10.2,	7.8,	14.0,	14.7,	10.3,	11.7,	12.6,	12.6,	12.5,	16.1,	18.9,	17.9,	21.0,	14.5,	14.5,	14.0,	12.4,	11.6,	11.3,	7.8,	4.6,	1.3,	-3.2
LZ,	82.9,	37.9,	87.4,	33.0,	27.4,	27.1,	28.9,	28.6,	25.9,	24.7,	59.8,	57.5,	34.8,	59.8,	57.8,	69.6,	80.9,	73.5,	74.1,	66.5,	41.3,	33.4,	31.0,	30.9,	54.9,	33.4,	32.1,	20.7,	20.9,	30.7,	21.4,	13.8,	9.9,	8.3
LA,	79.1,	23.8,	83.7,	-18.8,	-16.8,	-12.0,	-5.1,	-2.1,	0.0,	2.5,	41.6,	40.4,	21.5,	49.5,	48.5,	63.2,	76.7,	69.9,	72.4,	65.4,	41.2,	33.9,	31.9,	32.1,	56.2,	34.6,	33.1,	21.2,	20.8,	29.3,	19.3,	9.9,	3.5,	-1.1
LZ,	84.8,	82.7,	86.4,	32.4,	23.1,	19.2,	24.5,	24.0,	19.3,	22.6,	64.6,	54.3,	27.9,	65.0,	51.3,	74.1,	83.3,	72.4,	74.9,	68.1,	39.1,	33.7,	30.8,	31.0,	52.5,	35.3,	24.2,	13.8,	19.6,	23.7,	18.3,	11.3,	9.1,	8.9
LA,	80.8,	78.7,	82.4,	-19.1,	-22.0,	-20.4,	-9.3,	-7.0,	-6.2,	0.7,	46.5,	37.0,	15.0,	54.7,	41.8,	67.6,	79.0,	69.2,	73.1,	67.0,	39.1,	34.3,	31.8,	32.2,	53.8,	36.5,	25.1,	14.4,	19.4,	22.3,	16.1,	7.3,	2.6,	-0.6
LZ,	82.4,	41.2,	86.0,	30.7,	25.1,	24.4,	27.6,	25.5,	21.7,	28.4,	63.2,	45.4,	28.6,	63.6,	41.2,	72.6,	81.1,	68.8,	71.6,	66.2,	35.3,	31.1,	28.1,	28.4,	51.1,	34.4,	21.5,	12.9,	16.7,	20.2,	19.0,	11.5,	8.4,	7.3
LA,	78.4,	24.1,	81.8,	-20.7,	-19.9,	-14.8,	-6.2,	-5.4,	-4.0,	6.5,	45.0,	28.1,	15.9,	53.3,	32.2,	66.2,	76.9,	65.9,	69.8,	65.1,	35.4,	31.7,	29.0,	29.6,	52.3,	35.6,	22.5,	13.4,	16.6,	18.7,	16.9,	7.4,	2.0,	-2.3
LZ,	46.2,	34.8,	57.0,	31.5,	27.9,	31.5,	35.1,	36.7,	25.5,	37.3,	39.7,	31.8,	23.3,	25.7,	24.0,	20.2,	18.4,	19.7,	18.4,	17.0,	16.8,	16.2,	16.8,	16.1,	11.8,	12.0,	13.5,	12.8,	11.8,	12.6,	10.4,	8.8,	7.4,	6.2
LA,	29.1,	23.9,	38.1,	-18.6,	-16.3,	-7.6,	1.3,	5.7,	-0.7,	15.9,	20.2,	15.1,	10.1,	15.0,	15.1,	13.5,	13.6,	16.6,	16.5,	16.1,	16.8,	16.8,	17.8,	17.2,	13.0,	13.2,	14.4,	13.4,	11.7,	11.6,	8.0,	4.5,	1.0,	-3.2



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the LA-values are given in the next line  
if the output period is less than 1000ms, the 1/3 octave values are not output

time period multiplication factor is:8  
therefore output period is:1000 ms

LZ,	39.4,	37.6,	42.1,	32.1,	29.3,	29.0,	28.4,	28.0,	25.4,	23.3,	22.0,	23.7,	23.9,	24.8,	24.2,	17.6,	19.3,	21.3,	19.2,	19.7,	18.5,	20.4,	22.7,	20.8,	12.4,	12.2,	14.2,	12.7,	12.3,	12.6,	10.4,	8.8,	7.5,	6.2
LA,	30.2,	25.4,	34.3,	-17.8,	-14.8,	-9.9,	-6.0,	-2.0,	-1.1,	1.2,	3.1,	7.9,	10.7,	14.4,	15.2,	11.1,	14.8,	17.9,	17.3,	18.7,	18.5,	21.0,	23.7,	22.0,	13.6,	13.3,	15.1,	13.2,	12.1,	11.5,	8.0,	4.6,	1.0,	-3.2
LZ,	40.3,	38.0,	42.5,	29.5,	24.3,	29.3,	28.1,	30.2,	27.2,	21.6,	22.5,	22.2,	23.4,	24.2,	24.4,	21.7,	19.4,	20.6,	17.4,	16.0,	14.9,	17.4,	16.9,	18.6,	11.5,	11.5,	15.1,	15.0,	11.9,	13.1,	12.8,	9.8,	7.8,	6.4
LA,	28.3,	25.1,	31.6,	-21.0,	-19.1,	-10.2,	-6.5,	0.2,	1.1,	-0.6,	3.5,	6.1,	10.2,	13.5,	15.3,	15.0,	14.9,	17.2,	15.5,	15.2,	14.9,	18.0,	17.8,	19.8,	12.7,	12.7,	16.1,	15.6,	11.8,	11.9,	10.3,	5.7,	1.3,	-3.0
LZ,	41.9,	39.3,	43.6,	31.4,	25.7,	29.3,	31.5,	31.8,	27.3,	25.1,	25.6,	24.7,	21.1,	24.2,	24.0,	17.2,	16.4,	15.9,	14.7,	14.1,	14.0,	12.8,	12.8,	11.5,	10.5,	11.2,	12.7,	11.7,	11.7,	12.1,	10.6,	8.8,	7.7,	6.3
LA,	25.5,	24.2,	27.8,	-19.5,	-18.3,	-9.7,	-2.3,	1.1,	1.7,	2.7,	6.3,	8.7,	7.7,	13.3,	15.1,	10.7,	11.7,	12.7,	12.8,	13.1,	14.0,	13.4,	13.8,	12.7,	11.8,	12.4,	13.7,	12.3,	11.5,	11.0,	8.2,	4.5,	1.3,	-3.1
LZ,	40.5,	35.1,	44.9,	26.6,	27.5,	30.1,	31.8,	32.7,	24.2,	25.8,	27.5,	24.7,	20.1,	23.5,	23.2,	15.4,	16.5,	15.6,	14.0,	13.7,	13.0,	12.9,	12.0,	12.5,	10.8,	10.9,	12.1,	11.5,	11.5,	12.3,	10.3,	8.6,	7.0,	6.2
LA,	25.4,	24.3,	26.6,	-23.4,	-16.9,	-8.8,	-1.9,	1.8,	-2.1,	4.1,	7.8,	8.8,	7.1,	12.7,	14.3,	8.9,	11.7,	12.4,	12.0,	12.8,	13.0,	13.5,	13.0,	13.7,	12.0,	12.1,	13.0,	12.0,	11.3,	11.2,	7.9,	4.4,	0.6,	-3.2
LZ,	43.7,	38.7,	49.1,	30.8,	28.2,	28.8,	36.2,	34.7,	24.7,	34.5,	35.5,	27.5,	22.3,	24.9,	23.0,	16.9,	16.3,	16.9,	13.7,	12.7,	11.2,	12.9,	11.4,	11.3,	10.2,	10.6,	11.6,	11.4,	11.7,	12.4,	10.1,	8.4,	7.1,	5.9
LA,	25.9,	24.5,	29.3,	-19.8,	-15.1,	-10.5,	2.6,	3.8,	-2.2,	13.1,	15.8,	11.3,	9.1,	14.3,	14.1,	10.3,	11.6,	13.7,	11.8,	11.8,	11.2,	13.4,	12.3,	12.5,	11.5,	11.8,	12.6,	11.9,	11.5,	11.3,	7.7,	4.2,	0.6,	-3.5
LZ,	40.4,	38.5,	43.6,	31.1,	28.8,	29.1,	29.6,	29.1,	26.7,	25.1,	20.9,	25.9,	20.7,	24.3,	24.3,	15.4,	15.8,	18.9,	15.3,	17.6,	22.1,	19.5,	19.5,	19.6,	19.6,	17.3,	13.9,	11.7,	11.7,	12.2,	11.6,	10.4,	9.2,	6.2
LA,	30.0,	23.6,	37.8,	-19.1,	-15.3,	-10.3,	-5.1,	-1.1,	0.6,	2.2,	1.8,	10.2,	7.6,	13.6,	15.4,	8.9,	11.1,	15.8,	13.3,	17.0,	22.1,	20.1,	20.5,	20.8,	20.9,	18.5,	14.9,	12.2,	11.5,	11.1,	9.1,	6.2,	2.9,	-3.1
LZ,	41.3,	38.2,	43.1,	30.1,	30.9,	30.6,	26.9,	27.3,	25.0,	23.3,	24.4,	24.7,	21.6,	24.8,	23.5,	15.6,	16.2,	15.6,	13.8,	12.0,	10.7,	12.4,	11.4,	12.0,	10.2,	10.3,	11.7,	11.1,	11.5,	12.1,	10.0,	8.3,	6.8,	6.0
LA,	24.9,	24.4,	25.5,	-19.6,	-13.8,	-8.8,	-7.8,	-3.2,	-1.5,	1.3,	5.0,	9.2,	8.5,	14.1,	14.6,	9.1,	11.5,	12.4,	11.9,	11.2,	10.7,	12.9,	12.3,	13.2,	11.5,	11.5,	12.7,	11.6,	11.3,	11.0,	7.5,	4.1,	0.3,	-3.5
LZ,	40.6,	37.4,	43.5,	30.8,	30.7,	30.1,	30.8,	28.4,	24.9,	22.3,	21.3,	23.9,	21.1,	22.1,	23.0,	18.9,	16.8,	17.2,	16.4,	13.4,	11.5,	12.6,	13.2,	13.3,	10.8,	10.9,	13.2,	12.2,	12.2,	12.8,	11.0,	9.1,	7.7,	6.1
LA,	25.8,	24.3,	28.1,	-18.7,	-14.3,	-9.5,	-3.7,	-1.9,	-1.3,	-0.4,	2.0,	8.2,	7.9,	11.5,	14.1,	12.4,	12.0,	14.0,	14.5,	12.5,	11.5,	13.2,	14.1,	14.5,	12.0,	12.1,	14.1,	12.8,	12.1,	11.7,	8.6,	4.9,	1.3,	-3.3
LZ,	42.9,	35.6,	45.6,	31.3,	27.5,	26.6,	30.6,	27.3,	27.6,	22.7,	23.0,	24.8,	20.2,	23.7,	25.4,	15.2,	15.9,	15.1,	13.4,	12.0,	10.9,	10.8,	10.5,	10.0,	10.1,	10.2,	11.7,	11.3,	11.4,	12.3,	10.1,	8.5,	7.2,	6.2
LA,	24.6,	24.3,	25.1,	-19.5,	-16.2,	-12.9,	-3.5,	-2.9,	2.0,	0.1,	3.8,	9.1,	7.1,	13.1,	16.2,	8.8,	11.1,	11.9,	11.4,	11.1,	10.9,	11.4,	11.5,	11.2,	11.3,	11.4,	12.7,	11.9,	11.2,	11.2,	7.7,	4.2,	0.8,	-3.2
LZ,	42.4,	38.8,	44.6,	32.0,	23.2,	31.6,	27.5,	26.3,	22.5,	22.2,	21.8,	25.1,	20.9,	25.5,	23.7,	16.2,	16.6,	14.8,	13.8,	12.6,	13.1,	12.0,	11.4,	10.8,	9.8,	10.3,	12.0,	11.2,	11.2,	12.1,	9.9,	8.4,	6.8,	5.9
LA,	25.2,	24.2,	25.8,	-19.6,	-21.5,	-7.7,	-7.1,	-4.1,	-3.7,	-0.2,	2.5,	9.5,	7.7,	14.8,	14.8,	9.7,	11.9,	11.5,	11.9,	11.7,	13.1,	12.5,	12.3,	12.0,	11.1,	11.5,	13.0,	11.7,	11.1,	11.0,	7.5,	4.1,	0.4,	-3.5
LZ,	40.2,	38.4,	41.9,	30.5,	29.7,	26.1,	28.4,	28.2,	24.5,	22.4,	22.5,	24.5,	20.1,	24.1,	24.5,	15.8,	15.6,	15.2,	13.7,	11.5,	10.0,	10.4,	9.9,	10.5,	10.0,	10.3,	12.2,	11.6,	11.8,	12.2,	10.1,	8.5,	6.9,	6.1
LA,	24.7,	24.0,	25.7,	-19.4,	-14.1,	-12.8,	-6.0,	-2.0,	-1.5,	-0.4,	3.3,	8.5,	6.9,	13.3,	15.4,	9.2,	10.8,	12.0,	11.8,	10.7,	10.0,	11.0,	10.8,	11.7,	11.2,	11.5,	13.1,	12.1,	11.6,	11.1,	7.7,	4.3,	0.5,	-3.3

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the LA-values are given in the next line  
if the output period is less than 1000ms, the 1/3 octave values are not output

time period multiplication factor is:1  
therefore output period is:125 ms

LZ,	0.0,	0.0,	0.0
LA,	0.0,	0.0,	0.0

LZ,	38.5,	38.5,	38.5
LA,	31.5,	31.5,	31.5

LZ,	41.3,	41.3,	41.3
LA,	34.6,	34.6,	34.6

LZ,	40.0,	40.0,	40.0
LA,	30.6,	30.6,	30.6

LZ,	45.2,	45.2,	45.2
LA,	32.8,	32.8,	32.8

LZ,	40.6,	40.6,	40.6
LA,	31.6,	31.6,	31.6

LZ,	39.1,	39.1,	39.1
LA,	32.4,	32.4,	32.4

LZ,	36.7,	36.7,	36.7
LA,	25.6,	25.6,	25.6

LZ,	40.8,	40.8,	40.8
LA,	26.1,	26.1,	26.1

LZ,	39.1,	39.1,	39.1
LA,	25.6,	25.6,	25.6

LZ,	40.2,	40.2,	40.2
LA,	29.9,	29.9,	29.9

LZ,	40.0,	40.0,	40.0
LA,	31.7,	31.7,	31.7

LZ,	41.0,	41.0,	41.0
LA,	27.9,	27.9,	27.9

LZ,	39.6,	39.6,	39.6
LA,	25.8,	25.8,	25.8



DNMS Teensy4.0 standalone test program

Version: DNMS Version t.5.6 for IM72D128 microphone

output of all data every: 24 x 125ms - the default output period  
you can change the output period by inputting now a different multiplication factor of the 125ms measurement interval  
if you do no input within the next 5 seconds the default factor 24 will apply, which gives an output period of 3 seconds

the output of values from left to right is: LZeq, LZmin, LZmax, followed by the 31 1/3 octave values from 20Hz up to 20.000Hz  
the LA-values are given in the next line  
if the output period is less than 1000ms, the 1/3 octave values are not output

time period multiplication factor is:7  
therefore output period is:875 ms

LZ, 43.0, 40.9, 46.4  
LA, 30.4, 27.4, 32.4

LZ, 41.3, 38.6, 43.2  
LA, 31.6, 25.5, 35.8

LZ, 41.2, 40.0, 43.6  
LA, 30.8, 25.2, 34.6

LZ, 41.7, 40.5, 43.2  
LA, 33.7, 32.8, 35.1

LZ, 42.5, 40.4, 44.9  
LA, 32.2, 25.8, 34.4

LZ, 40.5, 37.9, 43.6  
LA, 28.4, 24.1, 32.4

LZ, 39.7, 37.6, 40.9  
LA, 25.8, 25.2, 27.5

LZ, 39.9, 37.9, 41.9  
LA, 25.8, 24.6, 27.3

LZ, 40.2, 37.9, 43.1  
LA, 25.6, 24.5, 27.1

LZ, 39.8, 37.1, 42.3  
LA, 26.0, 24.2, 27.4

LZ, 42.1, 37.1, 46.5  
LA, 36.7, 24.3, 44.8

LZ, 42.9, 39.8, 46.0  
LA, 32.1, 25.0, 39.5

LZ, 43.9, 39.4, 47.9  
LA, 26.7, 24.2, 28.9

LZ, 39.9, 38.5, 41.8  
LA, 25.7, 24.6, 26.5