

Pa0nhc A600 PA peak meter interface. Partslist 20210502-33

For all 1mA 156 Ohm moving coil meters.

Conrad order numbers are given for as *reference for component properties*, or for easy ordering.

Part reference	Value	Total	Remarks.
R1 to 61	2k2	6	Conrad 1583602
R2 to 62, R4 to 64	10k	12	Conrad 1583903
R3 to 63	1k8	6	Conrad 1584758
R5 to 65	xxx		Not placed, leave open.
R6 to 66	3k3	6	Conrad 1584351
(R67)	22k To be soldered at the bottom side of the PCB, in parallel to D61. (R47 is not placed).	1	Conrad 1583906
D1,2,3,4 to 61,62,63,64	1n4148	24	Conrad 564851
C1,2,3 to 61,62,63, C72	100n 50V, RM2.5 ceramic X7R	19	Conrad 1578603
C4 to 64, C73	100u 25V, RM2.5 Electrolytic.	6	Conrad 1471162
C71	330n 50V, RM5 Ceramic.	1	Conrad 1578700
IC to IC6	LM324N DIL14	6	Conrad 1258053
IC socket	DIP14	6	Conrad 189510
J5 box headers	"2.54mm 2x6 pin male shrouded PC box header IDC socket"	2	eBay
	"2.54mm 2x6 pin female header socket connector"	2	eBay
"Buz" to "Buz6". "PAgnd", "CABgnd".	Breakable male pin header RM2.5 - 2pin.	9	Conrad 734220
	Female 2 pin IDC jumper RM2.5 - 2pin.	9	Conrad 739443
IC70	7805	1	Conrad 175030
"Meter" to "Meter6" "LED" to "LED6" "+ - 12Vdc" "Buzzer".	JST XH, RM2.5 Male 2pin PCB bus.	14	eBay
	JST XH, RM2.5 2pin Female plug with (30cm) long cable.	14	eBay
L70	10 uH Axial wired choke 3x7mm (Fastrom MMIC)	1	Conrad 440390
FSD1, 20,30, 50,60	(3k3 // 39k) <u>trimmer 5k</u> meter tolerance.		Meter FSD voltage 5Vdc
FSD40	270 Ohm resistor (trimmer 500)		Meter FSD voltage 2.23Vdc
Gain1	10k + 560 (10k6) (trimmer 20k)		Supply voltage J5-2
Gain20	8k2 + 560 (8k8) (trimmer 10k)		Supply current J5-4
Gain30	56k + 680 (56k7) (trimmer 100k)		PA PCB temperature J5-6
Gain40	3k3 + 680 (3k97) (trimmer 5k)		Reflected power J5-8
Gain50	3k3 + 680 (3k97) (trimmer 5k)		Forward power J5-10
Gain60	18k + 3k3 (21k3) (trimmer 50k)		Drive power J5-12
Alarm1	No resistor, leave open.		
Alarm20	56k + 680 (56k7) (trimmer 100k)		
Alarm30	22k + 4k7 (26k7) (trimmer 50k)		
Alarm40	3k3 + 180 (3k48) (trimmer 5k)		
Alarm50	39k + 5k6 (44k9) (trimmer 50k)		
Alarm60	82k + 2k2 (84k4) (trimmer 100k)		

All trimmers can be replaced by fixed metal film 1/4W 1% resistors, resulting in **directly calibrated circuits**, for cheap 85C1 1mA moving coil meters.

+ means resistors in series. // means in resistors in parallel.

Nominal trimmer values between (.) .

Trim pots orderNrs : 5k 446741, 10k 446753, 50k 446881, 100k 446893.