

Loc	Part Number	Description	Supplier	Stock	Landd BP	Stock Value	Alt Supp	Alt Pt.no	cost
A1	714-562	Acrylic Conformal Coating	RS	1	0.054	0.054			
A3	504-530	Supadrive pan head M4 x 6.4	RS	4	0.049	0.196			
A4		Link wire 1 cm		1	0.000	0.000			
A5		Unibond General Si sealant	BQ	1	0.433	0.433			
B1	MN1604	PP3 Alkaline 9v battery	FAR	1	2.080	2.080			
C1	126-512	10nF Capacitor	RS	1	0.220	0.220			
C2	116-802	Electro Cap 33UF 16V	RS	1	0.116	0.116			
C3	125-749	Capacitor	RS	1	0.190	0.190			
CL1		Coiled cable 2 core yellow	MWC	1	4.935	4.935			
D1	1N4148	Diodes 1N4148	FAR	1	0.014	0.014	RS	271-606	0.100
E1	34501000	Integral battery case style 4 type2	BOP	1	3.980	3.980	RS	581-622	6.890
E2		Case logo Scrn Prnt	GF	1	1.350	1.350			
E3	INENG	Instruction Case Insert	JSL	1	0.300	0.300			
E4	R23	Yellow enclosure LARGE		1	4.430	4.430		G13	2.910
F1	VN10KM	VN10KM Transistor	FAR	1	0.228	0.228	RS	655-537	0.230
FC1	FC1	R-17 Sensor	TED	1	29.120	29.120			
G1	543-197	Grommet 4.0mm	RS	1	0.010	0.010			
G2	268-495	Tie wrap small	FAR	1	0.012	0.012	RS	178-462	0.130
IC1	DPM400	Ultra Low power LCD DPM400	LAS	1	15.190	15.190	RS	260-944	22.560
IC2	TL071CP	TL071CP OP AMP	FAR	1	0.350	0.350	RS	304-245	1.140
IC3	CD4013BCN	CD14013BCN	FAR	1	0.160	0.160	RS	640-305	0.200
L1	VN3	Front Label VN202 Lge	REN	1	0.140	0.140			
L2	VN2	Front Label VN202 Oxygen Analyser.	REN	1	0.130	0.130			
L3	VNL4	Top Label Logo	REN	1	0.130	0.130			
L4	VNL1	Rear label Instruction	REN	1	0.140	0.140			
L5	VNL5	Serial Number label	REN	1	0.130	0.130			
M1		Instruction manual	JSL	1	0.300	0.300			
P1	348-259	10MM M/T CERMET TRIM 1K	FAR	1	0.960	0.960	RS	160-196	1.020
PC1	Divox-1-94	Printed Circuit Board only	PM	1	1.550	1.550			
R1	514-342	0.125W Metal film 22 Kohmn	FAR	1	0.034	0.034	RS	144-403	0.050
R10	333-154	RES HYSTAB 0.25W/6M8	FAR	1	0.020	0.020			
R3	514-240	0.125W METAL FILM 8K2	FAR	1	0.034	0.034	RS	144-352	0.500
R4	514-184	0.125W METAL FILM 4K7	FAR	1	0.034	0.034	RS	144-324	0.500
R5	514-275	0.125W Metal film 11 Kohmn	FAR	1	0.034	0.034	RS	144-407	0.050
R6	514-263	0.125W Metal film 10Kohmn	FAR	1	0.034	0.034	RS	144-368	0.050
R8	514-263	0.125W Metal film 10Kohmn	FAR	1	0.034	0.034	RS	144-368	0.050
R9	514-263	0.125W Metal film 10Kohmn	FAR	1	0.034	0.034	RS	144-368	0.050
S1	150-245	Push switch waterproof	FAR	1	1.740	1.740			
S2	148-921	Push switch waterproof kit	FAR	1	0.396	0.396			
SK1	179-888	28 way IC socket	FAR	1	0.096	0.096	RS	402-822	0.170
SK2	489-021	Twin Min PP3 battery connector	RS	1	0.236	0.236			
T1		Labour		1	15.000	15.000			
VR1	350-655	1W with Knob 10kohms	FAR	1	2.480	2.480	RS	168-263	3.300
W2	149-689	M4 Steel washer	RS	1	0.005	0.005			
WR2	354-515	Ribbon connector 10way	FAR	1	0.037	0.037			

Grand Total 87.096

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Loc	Part Number	Description	Supplier	Stock	Landed BP	Stock Value	Alt Supp	Alt Pt.no	cost
A1	714-562	Acrylic Conformal Coating	RS	1	0.054	0.054			
A3	524-530	Supadrive pan head M4 x 6.4	RS	4	0.049	0.196			
A4		Link wire 1 cm		1	0.000	0.000			
A5		Unibond General Si sealant	BQ	1	0.433	0.433			
B1	BT00114	PP3 Alkaline 9v battery	CPC	1	1.148	1.148	FAR	MN1604	2.080
C1	126-512	10nF Capacitor	RS	1	0.220	0.220			
C2	116-802	Electro Cap 33UF 16V	RS	1	0.116	0.116			
C3	125-749	Capacitor	RS	1	0.190	0.190			
CL1		Coiled cable 2 core yellow	MWC	1	4.935	4.935			
D1	1N4148	Diodes 1N4148	FAR	1	0.014	0.014	RS	271-606	0.100
E1	34501000	Integral battery case style 4 type2	BOP	1	3.980	3.980	RS	581-622	6.890
E2		Case logo Scra Prnt	GF	1	1.350	1.350			
E3	INENG	Instruction Case Insert	JSL	1	0.300	0.300			
E4	R23	Yellow enclosure LARGE		1	4.430	4.430		G13	2.910
F1	VN10KM	VN10KM Transistor	FAR	1	0.228	0.228	RS	655-537	0.230
FC1	FC1	R-17 Sensor	TED	1	29.120	29.120			
G1	543-197	Grommet 4.0mm	RS	1	0.010	0.010			
G2	268-495	Tie wrap small	FAR	1	0.012	0.012	RS	178-462	0.130
IC1	DPH400	Ultra Low power LCD DPH400	LAS	1	15.190	15.190	RS	260-944	22.560
IC2	TL071CP	TL071CP OP AMP	FAR	1	0.350	0.350	RS	304-245	1.140
IC3	CD14013BCN	CD14013BCN	FAR	1	0.160	0.160	RS	640-305	0.200
L1	L3	Front Label VN202 Lge	REN	1	0.140	0.140			
L2	VNL2	Front Label VN202 Oxygen Analyser.	REN	1	0.130	0.130			
L3	VNL4	Top Label Logo	REN	1	0.130	0.130			
L4	VNL1	Rear label Instruction	REN	1	0.140	0.140			
L5	VNL5	Serial Number label	REN	1	0.130	0.130			
M1		Instruction manual	JSL	1	0.300	0.300			
P1	348-843	10MM M/T CERNET TRIM 1K	FAR	1	0.610	0.610	FAR	348-259	0.960
PC1	Divox-1-94	Printed Circuit Board only	PM	1	1.550	1.550			
R1	514-342	0.125W Metal film 22 Kohm	FAR	1	0.034	0.034	RS	144-403	0.050
R10	333-154	RES HYSTAB 0.25W/6M8	FAR	1	0.020	0.020			
R11	514-263	0.125W Metal Film 10Kohm	FAR		0.000	0.000	RS	144-368	0.050
R3	514-240	0.125W METAL FILM 8K2	FAR	1	0.034	0.034	RS	144-352	0.500
R4	514-184	0.125W METAL FILM 4K7	FAR	1	0.034	0.034	RS	144-324	0.500
R5	514-275	0.125W Metal film 11 Kohm	FAR	1	0.034	0.034	RS	144-407	0.050
R6	514-263	0.125W Metal film 10Kohm	FAR	1	0.034	0.034	RS	144-368	0.050
R8	514-263	0.125W Metal film 10Kohm	FAR	1	0.034	0.034	RS	144-368	0.050
R9	514-263	0.125W Metal film 10Kohm	FAR	1	0.034	0.034	RS	144-368	0.050
S1	150-245	Push switch waterproof	FAR	1	1.740	1.740			
S2	148-921	Push switch waterproof kit	FAR	1	0.396	0.396			
SK1	179-888	28 way IC socket	FAR	1	0.096	0.096	RS	402-822	0.170
SK2	489-021	Twin Min PP3 battery connector	RS	1	0.236	0.236			
T1		Labour		1	15.000	15.000			
VR1	350-655	1W with Knob 10kohms	FAR	1	2.480	2.480	RS	168-263	3.300
W2	149-689	M4 Steel washer	RS	1	0.005	0.005			
WR2	354-515	Ribbon connector 10way	FAR	1	0.037	0.037			

Grand Total

85.814

Loc	Part Number	Description	Supplier	Stock	Landed BP	Stock Value	Alt Supp	Alt Pt.no	cost
A1	714-562	Acrylic Conformal Coating	RS	1	0.054	0.054			
A3	504-530	Supadrive pan head M4 x 6.4	RS	4	0.049	0.196			
A4		Link wire 1 cm		1	0.000	0.000			
A5		Unibond General Si sealant	BQ	1	0.433	0.433			
B1	MN1604	PP3 Alkaline 9v battery	FAR	1	2.080	2.080			
C1	126-512	10nF Capacitor	RS	1	0.220	0.220			
C2	116-802	Electro Cap 33UF 16V	RS	1	0.116	0.116			
C3	125-749	Capacitor	RS	1	0.190	0.190			
CL1	✓201	Coiled cable 2 core yellow	MWC	1	4.935	4.935			
D1	1N4148	Diodes 1N4148	FAR	1	0.014	0.014	RS	271-606	0.100
E1	34501000	Integral battery case style 4 type2	BOP	1	3.980	3.980	RS	581-622	6.890
E2		Case logo Scrn Prnt	GF	1	1.350	1.350			
E3	INENG	Instruction Case Insert	JSL	1	0.300	0.300			
E4	R23	Yellow enclosure LARGE		1	4.430	4.430		G13	2.910
F1	VN10KM	VN10KM Transistor	FAR	1	0.228	0.228	RS	655-537	0.230
FC1	FC1	R-17 Sensor	TED	1	29.120	29.120			
G1	543-197	Grommet 4.0mm	RS	1	0.010	0.010			
G2	268-495	Tie wrap small	FAR	1	0.012	0.012	RS	178-462	0.130
IC1	DPM400	Ultra Low power LCD DPM400	LAS	1	15.190	15.190	RS	260-944	22.560
IC2	TLO71CP	TLO71CP OP AMP	FAR	1	0.350	0.350	RS	304-245	1.140
IC3	CD4013BCN	CD14013BCN	FAR	1	0.160	0.160	RS	640-305	0.200
L1	VN1	Front Label VN202 Lge	REN	1	0.140	0.140			
L2	VNL2	Front Label VN202 Oxygen Analyser.	REN	1	0.130	0.130			
L3	VNL4	Top Label Logo	REN	1	0.130	0.130			
L4	VNL1	Rear label Instruction	REN	1	0.140	0.140			
L5	VNL5	Serial Number label	REN	1	0.130	0.130			
M1		Instruction manual	JSL	1	0.300	0.300			
P1	348-259	10MM M/T CERMET TRIM 1K	FAR	1	0.960	0.960	RS	160-196	1.020
PC1	Divox-1-94	Printed Circuit Board only	PM	1	1.550	1.550			
R1	514-342	0.125W Metal film 22 Kohm	FAR	1	0.034	0.034	RS	144-403	0.050
R10	333-154	RES HYSTAB 0.25W/6M8	FAR	1	0.020	0.020			
R3	514-240	0.125W METAL FILM 8K2	FAR	1	0.034	0.034	RS	144-352	0.500
R4	514-184	0.125W METAL FILM 4K7	FAR	1	0.034	0.034	RS	144-324	0.500
R5	514-275	0.125W Metal film 11 Kohm	FAR	1	0.034	0.034	RS	144-407	0.050
R6	514-263	0.125W Metal film 10Kohm	FAR	1	0.034	0.034	RS	144-368	0.050
R8	514-263	0.125W Metal film 10Kohm	FAR	1	0.034	0.034	RS	144-368	0.050
R9	514-263	0.125W Metal film 10Kohm	FAR	1	0.034	0.034	RS	144-368	0.050
S1	150-245	Push switch waterproof	FAR	1	1.740	1.740			
S2	148-921	Push switch waterproof kit	FAR	1	0.396	0.396			
SK1	179-888	28 way IC socket	FAR	1	0.096	0.096	RS	402-822	0.170
SK2	48	Twin Min PP3 battery connector	RS	1	0.236	0.236			
T1		Labour		1	15.000	15.000			
VR1	350-655	1W with Knob 10kohms	FAR	1	2.480	2.480	RS	168-263	3.300
W2	149-689	M4 Steel washer	RS	1	0.005	0.005			
WR2	354-515	Ribbon connector 10way	FAR	1	0.037	0.037			

Grand Total 87.096

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AT Nos		COST	TAROR	TAROR + VAT	NON RATED ETC	RATED + VAT
A-268	T	1.40	2.1	2.47	3.15	3.71
B-50057	Flu	3.90	5.88	6.87	8.78	10.31
222F10		0.20	0.30	.35	0.45	.53
VP12		0.10	0.15	.18	0.23	.27
222F		5.20 7.60	14.40	16.92	21.60	25.38
DINKIT		15.20	22.80	26.79	34.20	40.20
VN202 COMPART			140	164.5	169.79	199.50
R-17			46	54.05	69.00	84.60
VN91		2.80	4.20	4.94	6.30	7.40
VN R1		5.05	7.57	8.90	11.55	13.35
BS111		.13	.20	.23	.30	.34
INSTA						
AP015 Achup		11.92				

Definition

Cost Price to Vandagroph

TAROR = 1.5 x COST except in Special cases i.e. R-17.

Retard = 1.5 x Cost x 1.5 + VAT

Vandagraph VN202 Pricing

Manufacturing Costs

Parts **43**
Labour **15**
Sensor **29**

Total **£87**

Gp **20**
GP sensor **17**

Total **£124**

Costs	Busuttili	Trade/Shops	Retail	IANTD -R17	Export Private
VN202 £124	129	140	199.5	99	170
Din £15.80	20	25	44	20	38
Total £139.80	149	165	243.5	119	208
R-17	46	46	78.5	46	60

Printing PCB

Loc	Part Numbe	Description	Cost
A1	714-562	Acrylic Conformal Coating	0.05
A4		Link wire 1 cm	0
C1	126-512	10nF Capacitor	0.06
C2	116-802	Electro Cap 33UF 16V	0.07
D1	1N4148	Diodes 1N4148	0.01
F1	VN10KM	VN10KM Transistor	0.27
IC2	TLO71CP	TL071CP OP AMP	0.41
IC3	384-630	HEF4013BP	0.23
P1	348-843	10MM M/T CERMET TRIM 1K	0.6
PC1	Divox-1-94	Printed Circuit Board only	1.55
R1	514-342	0.125W Metal film 22 Kohmn	0.01
R10	333-153	RES HYSTAB 0.25W/6M8	0.02
R2	514-184	0.125W METAL FILM 4K7	0.01
R3	514-240	0.125W METAL FILM 8K2	0.01
R4	514-184	0.125W METAL FILM 4K7	0.01
R5	514-275	0.125W Metal film 11 Kohmn	0.01
R6	514-263	0.125W Metal film 10Kohmn	0.01
R8	514-263	0.125W Metal film 10Kohmn	0.01
R9	514-263	0.125W Metal film 10Kohmn	0.01
SK1	179-888	28 way IC socket	0.09
C3	125-749	Capacitor	0.05
R11	514-263	0.125W Metal Film 10Kohm	0.01
R	514-263	0.125W Metal film 10Kohm	0.01
M1	152-659	Shielding tape, copper	0.15
M4		Solder	0.1

3.853
of 2.05

Labour 10 min

VN202 Component Costs

Battery Converter

Loc	Part Numbe	Cost	Order Numbe	Description
	514-263	0	514-263	0.125W Metal film 10Kohm
A1	714-562	0.01	714-562	Acrylic Conformal Coating
A3	504-530	0.05	504-530	Supadrive pan head M4 x 6.4
<u>A4</u>		0		Link wire 1 cm
A5		0.43		Unibond General Si sealant
B1	BT00114	1.15	249-8532	PP3 Alkaline 9v battery
<u>C1</u>	126-512	0.06	126-512	10nF Capacitor
<u>C2</u>	116-802	0.07	116-802	Electro Cap 33UF 16V
<u>C3</u>	125-749	0.05	125-749	Capacitor
<u>CL1</u>		5.7		Coiled cable 2 core yellow
<u>D1</u>	1N4148	0.01	1N4148	Diodes 1N4148
E1	34501000	4.43	34501000	Integral battery case style 4 type2
E2		0		Case logo Scm Prnt
E3	INENG	0.3		Instruction Case Insert
E4	R23	1.91	G13	Yellow enclosure LARGE
<u>E1</u>	VN10KM	0.27	VN10KM	VN10KM Transistor
FC1	FC1	30		R-17 Sensor
G1	543-197	0.02	543-197	Grommet 4.0mm
G2	268-495	0.21	268-495	Tie wrap small
IC1	DPM400	15.9	175-944	Ultra Low power LCD DPM400
<u>IC2</u>	TLO71CP	0.41	TLO71CP	TLO71CP OP AMP
<u>IC3</u>	384-630	0.23		HEF4013BP
L1	VNL3	0.08	VL	Front Label VN202 Lge
L2	VNL2	0.08	VL	Front Label VN202 Oxygen
L3	VNL4	0.00	VL	Top Label Logo
L4	VNL1	0.09		Rear label Instruction
L5	VNL5	0.12		Serial Number label
M1		0.3		Instruction manual
M1	152-659	0.15	152-659	Shielding tape, copper
M2	568-483	0.3	568-483	RFI shielding spray
M3	501-311	0.02	501-311	Masking tape
M4		0.1		Solder
<u>P1</u>	348-843	0.6	348-843	10MM M/T CERMET TRIM 1K

Y1202 Component Costs

Loc	Part Numbe	Cost	Order Numbe	Description
✓PC1	Divox-1-94	1.55	Divox-1-94	Printed Circuit Board only
✓R1	514-342	0.01	514-342	0.125W Metal film 22 Kohmn
✓R10	333-153	0.02	333-154	RES HYSTAB 0.25W/6M8
✓R11	514-263	0.01	514-263	0.125W Metal Film 10Kohm
✓R2	514-184	0.01	514-184	0.125W METAL FILM 4K7
✓R3	514-240	0.01	514-240	0.125W METAL FILM 8K2
✓R4	514-184	0.01	514-184	0.125W METAL FILM 4K7
✓R5	514-275	0.01	51- 275	0.125W Metal film 11 Kohmn
✓R6	514-263	0.01	514-263	0.125W Metal film 10Kohmn
✓R8	514-263	0.01	514-263	0.125W Metal film 10Kohmn
✓R9	514-263	0.01	514-263	0.125W Metal film 10Kohmn
S1	150-245	1.85	150-245	Push switch waterproof
S2	148-921	0.42	149-921	Push switch waterproof kit
✓SK1	179-888	0.09	179-888	28 way IC socket
SK2/	489-021	0.21	489-021	Twin Min PP3 battery connector
T1		16		Labour
VR1	350-655	2.72	350-655	1W with Knob 10kohms
W2	526-366	0.00	526-366	M4 Fibre washer
✓WR	354-515	0.03	354-515	Ribbon connector 10way