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**ELECTRONIC
INSTRUMENTS**

OSCILLOSCOPES

CD. 1014. 3	Portable Double Beam Oscilloscope DC - 5 Mc/s	£150
CD. 1016	Rack Mounted Double Beam Oscilloscope DC - 5 Mc/s	£200
CD. 1183	Oscilloscope Main Frame	£200
CX. 1270	Wide Band Amplifier DC - 10 Mc/s	£40
CX. 1271	High Gain Differential Amplifier 100 μ V per cm	£55
CX. 1272	Time-Base Generator	£65
CT. 484	Oscilloscope Main Frame	£500
CX. 1251	Wide Band Amplifier DC - 40 Mc/s	£70
CX. 1252	Dual Trace Amplifier DC - 24 Mc/s	£95
CD. 1220	Oscilloscope Main Frame	£590
CX. 1256	Wide Band Amplifier DC - 40 Mc/s	£55
CX. 1257	Dual Trace Amplifier DC - 24 Mc/s	£110
CX. 1258	High Gain DC Differential Amplifier 100 μ V per cm	£80
CX. 1259	High Gain Wide Band Amplifier 5mV/cm	£65
CD. 1400	Oscilloscope Main Frame	£90
CD. 1400. R	Oscilloscope Main Frame (Rack Mounting)	£94
CX. 1441	Wide Band Amplifier DC - 15 Mc/s	£19
CX. 1442	High Gain Differential Amplifier DC - 100 kc/s	£32
CX. 1443	Time-Base Generator	£28
CX. 1444	Sweep Delay Time Base Generator	£65

OSCILLOSCOPE ACCESSORIES

Separate price list available.

GENERAL ELECTRONIC INSTRUMENTS

CO. 546. 2	Wide Range Oscillator	172
CO. 1004. 3	Wide Range Oscillator	£120
GO. 1101. 2	Double Pulse Generator	£135
GO. 1377	Precision Double Pulse Generator	£310
AT. 201	Wide Band Attenuator 600 Ω	£30
CA. 512	Voltage Standing Wave Ratio Indicator	£260
AS. 562	Klystron Power Supply	£248
AWS.51. A	Laboratory Amplifier	£190
VF. 252	Precision AC Millivoltmeter	£210
VM. 1484	R.M.S. Millivoltmeter	£179

**ELECTRONIC
INSTRUMENTS**

POWER SUPPLY UNITS

AS. 870. 4	Transistor Power Supply 0—30V, 0—3A	£145
AS. 1164. 2	Twin Transistor Power Supply 0—30V/0—30V, 0—1A	£150
AS. 1165. 2	Regulated Power Supply 0—500V, 0—350mA	£165
AS. 1218	Regulated Power Supply 0—30V, 0—10A	£240
AS. 1410	Power Supply Unit 0—30V, 0—1A	£85
AS. 1410. T	Twin Power Supply Unit 2 off 0—30V, 0—1A	£170
AS. 1411	Power Supply Unit 0—40V, 0—2A	£100
AS. 1411. T	Twin Power Supply Unit 2 off 0—40V, 0—2A	£200
AS. 1412	Power Supply Unit 0—40V, 0—5A	£145
AS. 1413	Power Supply Unit 0—40V, 0—0.5A	£75
AS. 1413. T	Twin Power Supply Unit 2 off 0—40V, 0—0.5A	£150
AS. 1414	Power Supply Unit 0—60V, 0—1A	£100
AS. 1414. T	Twin Power Supply Unit 2 off 0—60V, 0—1A	£200
AS. 1416	Power Supply Unit 2 off 0—30V, 0—0.3A	£125
AS. 1416. T	Twin Power Supply Unit 4 off 0—30V, 0—0.3A	£250
AS. 952. 2	Chokeless stabilised sub-unit ± 200 —300V, 100mA	£38
AS. 956. 2	Chokeless stabilised sub-unit ± 200 —300V, 200mA	£60

DIGITAL INSTRUMENTS

LM. 1219	AC Converter	£280
LM. 1420	DC Integrating Digital Voltmeter (0.05%)	£375
LM. 1420. R	19 in. Rack Mounting with LM. 1479	£340
LM. 1420. B	19 in. Bench Case	£405
LM. 1420. F	14½ in. Bench Case with EX. 1476	£425
LM. 1420. RF	19 in. Rack Mounting with EX. 1476 and LM. 1479	£440
LM. 1420. BF	19 in. Bench Case with EX. 1476 and LM. 1479	£455
LM. 1420. RFC	19 in. Rack Mounting with EC. 1475 and EX. 1476	£490
LM. 1420. BCF	19 in. Bench Case with EC. 1475 and EX. 1476	£500
LM. 1420. RFA	19 in. Rack Mounting with LM. 1477 and EX. 1476	*
LM. 1420. BFA	19 in. Bench Case with LM. 1477 and EX. 1476	*
LM. 1420. RC	19 in. Rack Mounting with EC. 1475	£440
LM. 1420. BC	19 in. Bench Case with EC. 1475	£450
LM. 1420. RA	19 in. Rack Mounting with LM. 1477	*
LM. 1420. BA	19 in. Bench Case with LM. 1477	*
LM. 1440	Precision Digital Voltmeter (0.005%)	£645
LM. 1480	Auto-ranging Precision Digital Voltmeter (0.005%)	£685

PRECISION DYNAMIC ANALYSIS EQUIPMENT

TFA. 3	Transfer Function Analyser, comprising OS. 103.3, VP. 253.3 and JX. 746.2 <i>N.B.</i> OS. 103.3 and VP. 253.3 combination also available separately.	£1,910
OS. 103. 3	LF Decade Oscillator	£750
VP. 253. 3	LF Resolved Components Indicator	£800
VP. 250. 2	Resolved Components Indicator	£560
JX. 541. 2	Transfer Function Analyser Carrier Converter	£400
BO. 567	Two Phase LF Oscillator	£250
JX. 603. 3	Mechanical Reference Generator	£470
JX. 612. 2	Sub-sonic Power Amplifier	£435
JX. 641. 2	Transfer Function Analyser Carrier Converter	£400
JX. 746. 2	Transfer Function Analyser Reference Resolver	£360
JY. 747	Gyro Response Test Console	*
JY. 1161	Servo System Analyser (DC Electrical System)	*
JY. 1162	Servo System Analyser (AC Electrical System)	*
JY. 1163	Servo System Analyser (Mechanical Systems)	*
JY. 743. 3	Process Response Analyser	£3,500

* - Price on application

**DATA LOGGING
SYSTEMS**

Digital Recording

LP. 1029	Data Logger 100 channel (10 channels per second) printer output	£2,950
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Analogue to Digital Converters

LM. 1420	See under Digital Instruments	
LM. 1440	See under Digital Instruments	
LP. 942	Analogue to Digital Converter	£900
LP. 1043	Translator Unit (to operate with LP 942)	£275
LP. 1115. 3	Analogue to Digital Converter	£800
LU. 1103	Capacitance Transfer Unit	£55
LP. 1524	Analogue to Digital Converter (12 bit Binary)	£875

Modules

LP. 1045	Digital Clock	£550
LP. 1132	Commutator	£350
LP. 1241	Commutator Sub-Controller	£100
LP. 1242	Relay Chassis	£115
LP. 1243	Relay Unit	£170
LP. 1131	Paper Punch Encoder	£400
LP. 1044	Typewriter Drive Unit	£310

Miscellaneous Items

LY. 1247	Comprising 100 junction Thermocouple Reference Oven LX 1018.2 Reference Oven Controller LX 1019.2	*
LY. 1248	Comprising 500 junction Thermocouple Reference Oven LX 1110 Reference Oven Controller LX 1019.2	*
AR. 1124	Bridge Unit (for resistance thermometers)	£450
AR. 1138	Bridge Unit (for strain gauges)	£450
LP. 1425	Off Limit Comparator	£150
LP. 1427	Off Limit Selector	£100

* - Price on application

**TRANSDUCERS
DATA PRODUCTS**

Transducers

NT. 4-313(S)	Standard General Purpose Pressure Transducer	++	£70 - Gauge £83 - Absolute or differential
NT. 4-313(I)	Industrial General Purpose Pressure Transducer	++	£60 - Gauge £70 - Absolute or differential
NT. 4-317(S)	Standard High Temperature Pressure Transducer	++	£150 - Gauge £160 - Absolute or differential
NT. 4-317(I)	Industrial High Temperature Pressure Transducer	++	£110 - Gauge £120 - Absolute or differential
NT. 4-980. 2	Vibrating Cylinder Pressure Transducer		£135
NT. 1555	Vibrating Cylinder Depth Transducer (Transdeceptor)		*
NT. 1171. 2	Pressure Scanning Valve 24 port (exclusive of Pressure Transducer Type NT. 4-313)		85°C £360 150°C £640 +£35 for 48 ports
NT. 1198	Platinum Resistance Thermometer Probe		£35 - (1-10) £30 - (11 or more)
NT. 1199	Platinum Resistance Thermometer Probe		£50 - (1-50) £30 - (51 or more)
AS. 958	Strain Gauge Power Supply (6 channel)		£190
AS. 974	Strain Gauge Power Supply (single channel)		£50

Accessories

NT. 1057	Adapter for use with NT. 4-313 and NT. 4-317 Series	£15
NT. 1058	Adapter for use with NT. 4-313 and NT. 4-317 Series	£15
NT. 1059	Adapter for use with NT. 4-313 and NT. 4-317 Series	£10
NT. 1060	Adapter for use with NT. 4-313 and NT. 4-317 Series	£5
NT. 1061	Adapter for use with NT. 4-313 and NT. 4-317 Series	£5
NT. 1064	Adapter for use with NT. 4-313 and NT. 4-317 Series	£10

Data Amplifiers

AA. 900	Wide Band DC Amplifier	£225
AX. 908.2	6 Unit Rack (to hold up to 6 amplifiers)	£160
AX. 909	Single Unit Cabinet for AA. 900	£50

++ - Cannot market outside the U.K.

* - Price on application

**DATA PRODUCTS
ANALOGUE COMPUTERS**

Printers

ED. 1175	Direct High Speed Printer (max. 14 columns)	£890 (£610 basic + £40 per pair of columns)
ED. 1176	Register High Speed Printer (max. 14 columns)	£1,220 (£800 basic + £30 per column)
ED. 1177	Random Entry Printer	*

Compact Logger

LU. 1470	Compact Logger 2 Level Case Assembly	£635
LU. 1471	Compact Logger 3 Level Case Assembly	£720
LU. 1461	Scanner (20 channel)	£225
LU. 1462	Resistance Thermometer Unit	£187
LU. 1463	Digital Clock	£160
LU. 1464	Off-Limit Detector	£160
LU. 1465	Lineariser	*
LU. 1466	Printer Drive Unit	£150
LU. 1467	Punch Encoder	£180
LU. 1468	Thermocouple Unit	£185
LU. 1469	Typewriter Drive Unit	£195

Output Connecting Cables (Punch, Typewriter or Printer)	£10 to £20, as required.
Addo X Printer	£210
Creed 25 Punch	£264
Patchboard Pins	9/6d. each.
Compact Logger, 50- or 100-channel versions	*
I.B.M. Model "B" Typewriter	£396

Systems

TY. 1152	247/36 Analogue Computing System	From £7,500 - £13,500
TY. 1352	247/72 Analogue Computing System	From £11,500 - £22,000
TY. 1451	Analogue Computer	From £2,000 - £3,300
TY. 1351	Analogue Tutor Mk. II	£630
TX. 1125	Linear Conversion Kit (for expansion of TY. 1151 to 20 amplifiers)	£190
TX. 1127	Conversion Kit (to incorporate Electronic Multipliers or Diode Function Generator TR. 1221. 2)	£30
TX. 967	Conversion Kit (to incorporate Servo Multiplier/Resolver TJ. 1231 in TY. 1151)	£25
AS. 1403	Power Supply for TY. 1351	£220

* - Price on application.

ANALOGUE COMPUTERS

Amplifiers and Accessories

AA. 1023	DC Amplifier	£55
TA. 828	Cathode Follower	£20
TX. 791. 2	Amplifier Mounting Unit for AA. 1023 (3mm Socket Outlet)	£35
TX. 868	Amplifier Mounting Unit for AA. 1023 (Plug Outlet)	£30
TS. 722. 2	Heater Supply Unit for AA.1023	£25
AA. 1054. 2	Dual DC Amplifier	£95
TX. 1055. 2	Amplifier Mounting Unit for AA. 1054. 2	£53
TA. 964	Twin Relay Amplifier	£75
TA. 965	Logarithmic Amplifier	£230

Multipliers

TJ. 1231. 2/05	Servo Resolver (2 sin/cos 3 linear sections)	£850
TJ. 1231. 2/01	Servo Resolver (5 sin/cos 1 linear section)	£980
TJ. 1231. 2/03	Servo Multiplier (6 linear sections)	£800
TX. 926	Servo Mounting Unit	£50
Electronic Multiplier consisting of:		
TX. 1321	Mounting Unit	£75
TR. 1322	Mark Space Modulator	£100
TR. 1323	Height Modulator	£120
TR. 1361	Quarter Squares Multiplier	£135

Function Generators

TR. 829. 2	General Purpose Diode Function Generator (12 segment)	£500
TR. 1221. 2	General Purpose Diode Function Generator (10 segment passive network)	£100
TX. 1024	Mounting Unit for TR. 1221. 2 used with AA. 1023	£63
TX. 1236. 2	Mounting Unit for TR. 1221. 2 used with AA. 1054. 2	£50
TX. 1269	Mounting Unit for 5 AA. 1054. 2's and 1 TR. 1221. 2	£53
TR. 1360	Electronic Resolver	£100

Power Supplies

AS. 853. 2	General Purpose Power Supply $\pm 300V$, 100mA	£105
AS. 856. 2	General Purpose Power Supply $\pm 300V$, 200mA	£165
AS. 851. 2	General Purpose Power Supply 300V, 1A	£190
AS. 755. 2	General Purpose Power Supply 300V, 500mA	£110
AS. 1104. 2	HT and Heater Power Supply for AA. 1054. 2 amplifiers	£195
AS. 756. 2	Reference Supply $\pm 100V$, 200mA	£370
AS. 1102	Reference Supply $\pm 100V$, 350mA	£310

Digital Voltmeters

TM. 923	Computer Digital Voltmeter Electronic Unit (159.99 Volts Fixed Range)	£670
TD. 960	DV Readout Unit (5 digit)	£85

Miscellaneous

TR. 1353	Dual Inverter Unit	£23
TR. 1452	Twin Linear Computing Unit	£55
TX. 822	Special Function Unit	£5.12.0
TX. 822. NS1	Special Function Unit (for use in TX. 791. 2 or TX. 868)	£5.12.0
TX. 724	Ventilation Panel	£4.5.0

SOLARTRON

GENERAL TERMS AND CONDITIONS OF SALE

The VENDOR referred to in these conditions of sale is "THE SOLARTRON ELECTRONIC GROUP LIMITED" having its principal place of business at Victoria Road, Farnborough, Hampshire.

1. **PRICES:** Prices quoted are for delivery "ex-works, unpacked". These prices shall be subject to revision, without notice, according to the prices ruling at the time of despatch.
2. **SETTLEMENT TERMS:** Punctual payment is the essence of the Contract and payment of instalments due is a condition precedent to further deliveries. Unless otherwise stated. **SETTLEMENT TERMS** are:—NET—30 days. PURCHASERS using the Credit Transfer System of payment should establish credits in the Vendor's favour with Messrs. Coutts & Co., Bankers, 108 Park Lane, London, W.1 (Mayfair 18-00-06).
3. **PART DELIVERIES:** Where an order calls for a number of items, the VENDOR reserves the right to despatch all or any number of the items as soon as they are completed at the factory, and the PURCHASER shall honour all statements presented in respect of such deliveries, in accordance with the SETTLEMENT TERMS.
4. **PACKING, INSURANCE AND CARRIAGE:** Delivery shall mean "delivery ex-works, unpacked" and any additional charges in respect of packing, insurance and carriage shall be for the PURCHASER'S account. Moreover, the VENDOR will insure all consignments, unless otherwise instructed by the PURCHASER.
5. **ROUTING:** The PURCHASER may, when placing his order, state his preference, if any, in regard to routing as well as the services of a forwarding agent. In the absence of such information, the VENDOR shall effect deliveries either direct, or through a forwarding agent, and all resulting fees and expenses, unless otherwise agreed and stated in the ACKNOWLEDGMENT, shall be added to the invoice and statement and shall become due and payable in accordance with the SETTLEMENT TERMS.
6. **FORCE MAJEURE:** The VENDOR shall not be liable for failure to fulfil his Contract, or for loss or damage to the goods, or for delay in delivering the goods being caused by force majeure. Force majeure to include Acts of God such as storm, tempests, etc., or any action by any Government to include Export restrictions, confiscations, wars, etc., and all other such actions beyond the control of the VENDOR.
7. **INSPECTION AND ACCEPTANCE:** If the PURCHASER desires to inspect the goods, such inspection must be made at the VENDOR'S works, and notification of this requirement must be given at the time of placing the order. If, upon inspection, the goods are approved by, or on behalf of, the PURCHASER, such approval shall constitute acceptance.
8. **PROPERTY IN THE GOODS:** Unless there is an express agreement of the parties to the contrary, the property in the goods sold remain with the VENDOR until actual payment. Notwithstanding anything in this clause the mere return of the goods after acceptance shall not prevent the VENDOR from following the PURCHASER and claiming such liquidated damages as may be legitimately charged as a direct result from the goods being returned.
9. **CANCELLATION OF ORDER:** If an order for a non-standard instrument is cancelled after the expiration of fifteen days from the date on which it was placed, the VENDOR shall be entitled to claim as damages an amount equal to 50 per cent. of the value of the order and shall have the right (subject always to the prior right of the PURCHASER, to settle the claim) to rely on any security given by the PURCHASER, whether in kind or specie, in order to liquidate such damages as may have been incurred consequent upon cancellation.
10. **TWELVE MONTHS WARRANTY:** The VENDOR warrants that the goods to be delivered as described in his acknowledgment shall be of good quality and workmanship, and that the VENDOR has title thereto and the right to sell same. The VENDOR'S warranty of workmanship and components shall be effective from the date on which the goods were first despatched (hereinafter known as the "appointed date") and limited to twelve months. During the twelve months from the appointed date the VENDOR will replace free of charge, ex-works, any part or parts of the said products (goods) provided always the products (goods) or parts are returned to the VENDOR'S works CARRIAGE PAID. The products (goods) when serviced or replacement parts supplied will then be returned carriage paid by the VENDOR. The warranty shall not operate where the products (goods) shall have been taxed beyond their normal performance specifications or in other ways misused. Notwithstanding the foregoing, the Vendor's liability in respect of valves, cathode ray tubes, transistors, meters and any other item subject to a separate guarantee by the manufacturer of the component concerned, will be subject solely to that manufacturer's own warranty conditions.
11. **LEGAL CONSTRUCTION:** Except where otherwise stipulated in writing the relations arrangements and agreements between the parties shall be governed by the LAWS OF ENGLAND and all disputes which may arise under, out of, or in connection with or relating to this CONTRACT shall be submitted to arbitration of the LONDON COURT OF ARBITRATION in accordance with its RULES for the time being in force. Service of any notices in the course of such arbitration to the addresses of the parties as given in the CONTRACT shall be valid and sufficient.

We reserve the right to change specifications and prices without notice



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