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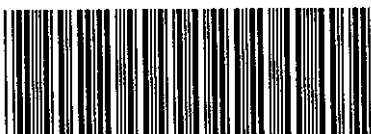
**CERTIFICATE OF INCORPORATION
OF A PRIVATE LIMITED COMPANY**

Company No. 3582536

The Registrar of Companies for England and Wales hereby certifies that
GRIFFITH & THOMAS (INSTRUMENTS) LIMITED

is this day incorporated under the Companies Act 1985 as a private
company and that the company is limited.

Given at Companies House, Cardiff, the 17th June 1998



N03582536J

R. C. Edwards
R. C. EDWARDS

For the Registrar of Companies



C O M P A N I E S H O U S E

HC007B



Please complete in typescript,
or in bold black capitals.

12

Declaration on application for registration

Company Name in full

GRIFFITH & THOMAS (INSTRUMENTS) LIMITED



F012001J

I, Secretarial Appointments Limited
of 16 Churchill Way, Cardiff, CF1 4DX

† Please delete as appropriate.

do solemnly and sincerely declare that I am a [Solicitor engaged in the formation of the company][person named as director or secretary of the company in the statement delivered to the Registrar under section 10 of the Companies Act 1985]† and that all the requirements of the Companies Act 1985 in respect of the registration of the above company and of matters precedent and incidental to it have been complied with.

And I make this solemn Declaration conscientiously believing the same to be true and by virtue of the Statutory Declarations Act 1835.

Declarant's signature

Declared at Cardiff

the 1st day of May

One thousand nine hundred and ninety Eight

① Please print name.

before me ① A. J. B. FORSTER

Signed

Date 01/05/1998

A Commissioner for Oaths or Notary Public or Justice of the Peace or Solicitor

Please give the name, address, telephone number and, if available, a DX number and Exchange of the person Companies House should contact if there is any query.

First Corporate Law Services

16 Churchill Way, Cardiff CF1 4DX

Tel 01222 229080

DX number 121727 DX exchange Cardiff 9



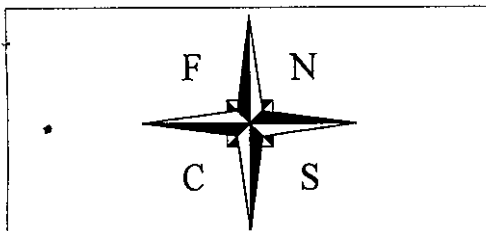
A04 *AYYQ06XZ* 671
COMPANIES HOUSE 10/06/98

Form revised March 1995

When you have completed and signed the form please send it to the Registrar of Companies at:

Companies House, Crown Way, Cardiff, CF4 3UZ DX 33050 Cardiff
for companies registered in England and Wales
or

Companies House, 37 Castle Terrace, Edinburgh, EH1 2EB
for companies registered in Scotland DX 235 Edinburgh



Please complete in typescript,
or in bold black capitals.

Notes on completion appear on final page

Company Name in full

GRIFFITH & THOMAS (INSTRUMENTS) LIMITED

Proposed registered Office

(PO Box numbers only, are not acceptable)

16 Churchill Way

Post Town

Cardiff

County/Region

Postcode

CF1 4DX

If the memorandum is delivered by an agent
for the subscriber(s) of the memorandum
mark the box opposite and give the agent's
name and address.

Agent's Name

First Corporate Law Services

Address

16 Churchill Way

Post Town

Cardiff

County/Region

Postcode

CF1 4DX

Number of continuation sheets attached

Please give the name, address,
telephone number and, if available
a DX number and Exchange of
the person Companies House should
contract if there is any query.

First Corporate Law Services

16 Churchill Way

Cardiff CF1 4DX

01222-229080

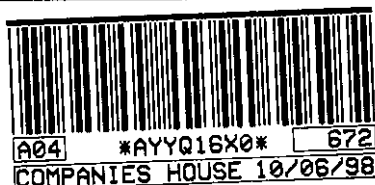
Tel

DX number

33018

DX exchange

Cardiff



Form revised March 1995

When you have completed and signed the form please send it to the
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or

Companies House, 37 Castle Terrace, Edinburgh, EH1 2EB
for companies registered in Scotland

DX235 Edinburgh

Company Secretary (See notes 1-5)

Company name			
NAME	*Style/title	*Honours etc	
Forenames			
Surname	Secretarial Appointments Limited		
Previous forenames	N/A		
Previous surname	N/A		
Address	16 Churchill Way		
<i>Usual residential address</i>			
For a corporation, give the registered or principal office address.	Post town	Cardiff	
	County / Region	Postcode	CF1 4DX
	Country		

I consent to act as secretary of the company named in page 1

Consent signature



Date

1-5-98

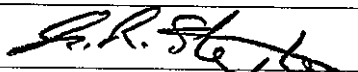
Directors (See notes 1-5)

Please list directors in alphabetical order

NAME	*Style / Title	*Honours etc	
Forename(s)			
Surname	Corporate Appointments Limited		
Previous forename(s)	N/A		
Previous surname(s)	N/A		
Address	16 Churchill Way		
<i>Usual residential address</i>			
For a corporation, give the registered or principal office address.	Post town	Cardiff	
	County / Region	Postcode	CF1 4DX
	Country	Wales	
Date of birth	Day	Month	Year
Nationality			
Business occupation			
Other directorships			

I consent to act as director of the company named on page 1

Consent signature



Date

1-5-98

Directors (continued) (see notes 1 - 5)

NAME	*Style/title		*Honours etc	
**Voluntary details	Forenames			
	Surname			
	Previous forename(s)			
	Previous surname(s)			
	Address			
	<i>Usual residential address</i>			
	For a corporation, give the registered or principal office address.			
	Post town			
	County / Region		Postcode	
	Country			
	Day	Month	Year	
	Date of birth		Nationality	
	Business occupation			
	Other Directorships			

I consent to act as director of the company named on page 1

Consent signature

Date

This section must be signed by
Either
an agent on behalf
of all subscribers

Signed

Date

1-5-98

Or the subscribers

Signed

Date

(i.e. those who signed
as members of the
memorandum or
association).

Signed

Date

Signed

Date

Signed

Date

Signed

Date

Signed

Date

Notes

1. Show for an individual the full forename(s) NOT INITIALS and surname together with any previous forename(s) or surname(s).

If the director or secretary is a corporation or Scottish firm - show the corporate or firm name on the surname line.

Give previous forename(s) or surname(s) except that:

- for a married woman, the name by which she was known before marriage need not be given,

- names not used since the age of 18 or for at least 20 years need not be given.

A peer, or an individual known by a title, may state the title instead of or in addition to the forename(s) and surname and need not give the name by which that person was known before he or she adopted the title or succeeded to it.

Address:

Give the usual residential address.

In the case of a corporation or Scottish firm give the registered or principal office.

Subscribers:

The form must be signed personally either by the subscriber(s) or by a person or persons authorised to sign on behalf of the subscriber(s).

2. Directors known by another description:

- A director includes any person who occupies that position even if called by a different name, for example, governor, member of council.

3. Directors details:

- Show for each individual director the director's date of birth, business occupation and nationality.

The date of birth must be given for each individual director.

4. Other Directorships:

- Give the name of every company of which the person concerned is a director or has been a director at any time in the past 5 years. You may exclude a company which either **is** or at **all times during the past 5 years**, when the person was a director, **was**:

- dormant,

- a parent company which wholly owned the company making the return,

- a wholly owned subsidiary of the company making the return, or

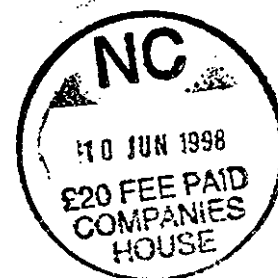
- another wholly owned subsidiary of the same parent company.

If there is insufficient space on the form for other directorships you may use a separate sheet of paper, which should include the company's number and the full name of the director.

5. Use Form 10 continuation sheets or photocopies of page 2 to provide details of joint secretaries or additional directors and include the company's number.

1000
1/2

THE COMPANIES ACTS 1985 TO 1989



PRIVATE COMPANY LIMITED BY SHARES

0065092

0065092

3582536

**MEMORANDUM OF ASSOCIATION OF
GRIFFITH & THOMAS (INSTRUMENTS) LIMITED**

1. The Company's name is "GRIFFITH & THOMAS (INSTRUMENTS) LIMITED"
2. The Company's registered office is to be situated in England and Wales.
3. (A) The Company's objects are :-
 - (i) To carry on business as a general commercial company; and
 - (ii) any other trade or business which may seem to the company and its directors to be advantageous and to directly or indirectly to enhance all or any of the business of the Company.



(B) To take on lease or in part exchange or purchase, hire or otherwise acquire and hold for any estate or interest any buildings, lands, rights, privileges, concessions, patents, patent rights, licences, secret processes, machinery and plant or personal property of any kind deemed convenient or necessary or in connection with the Company's business or any subsidiary thereof.

(C) To undertake and secure any part or whole of the business, its assets and goodwill of any company, firm or person trading or proposing to trade in any activity which the Company is authorised to carry on or propose to carry on and as part of the consideration for such purchase to undertake all or any of the liabilities of such company, firm or person, or to acquire an interest in, combine with, or enter into any arrangement for profit sharing, or for co-operation, or for mutual assistance with any such company, firm or person or for subsidising or otherwise aiding any such company, firm or person and to accept or give, by way of consideration for any of the acts or things aforesaid or property acquired, any securities, debentures, debenture stock or shares that may be agreed upon, and to retain and hold or mortgage, sell, and deal with any securities, debentures, debenture stock or shares so received.

(D) To sell, charge, mortgage, construct, repair, improve, develop, exchange, let on lease, grant privileges, options, rights and licenses in respect of all or any part of the property of the Company.

(E) To hold or otherwise deal with any investments made for the Company and as may be necessary and to be determined, to invest moneys not immediately required by the Company.

(F) To grant credit, loans or advances on such terms as may be appropriate with or without security to clients and others, to enter into indemnity, contracts or guarantees and suretyships of all kinds, to receive money on loan or deposit or otherwise upon such terms as the Company may approve and to secure or guarantee the payment of any sums of money or the performance of an obligation by any company, firm or person including any parent, subsidiary or fellow subsidiary company in such manner as the Company may think fit.

(G) To raise and borrow money by any method and to secure the payment of any money borrowed, raised or owing as the Company shall think fit for the purposes of or in connection with the Company's business.

(H) To issue discount, accept, draw and negotiate cheques, bills of exchange, bills of lading, warrants, debentures, promissory notes and other negotiable or transferable instruments.

(I) To purchase, take, subscribe for or otherwise obtain and retain shares or other securities or interests in any other company having objects similar or identical to those of the Company or carrying on any businesses capable of being carried on so as to directly or indirectly benefit the Company or increase the value of its property and manage, co-ordinate and finance the businesses and operations of any organisation in which the Company holds any such interest.

(J) To dispose of or sell the entire or any part of the property or business of the Company, either in portions or together for such consideration as the Company may think fit, especially for securities, debentures or shares of any company purchasing the same.

(K) To act as brokers, agents or trustees for any company, firm or person and to undertake and perform sub-contracts.

(L) To pay any company, firm or person supplying services to the Company either by cash payment or by the allotment to him/her or them of shares or other securities of the Company credited as paid up in full or in part or otherwise as may be deemed appropriate.

(M) To assign to the Members of the Company in kind any assets of the Company whatsoever.

(N) To grant pensions, allowances, gratuities and bonuses to officers, ex-officers, employees or ex-employees of the Company or its predecessors in business or the dependants or connections of such persons, to establish and maintain or concur in establishing and maintaining trusts, funds or schemes (whether contributory or non-contributory) with a view to providing pensions or other benefits for any such persons as aforesaid, their dependants or connections, and to support or subscribe to any charitable funds or institutions, the support of which may, in the opinion of the Directors, be calculated directly or indirectly to benefit the Company or its employees, and to institute or maintain any club or other establishment or profit sharing scheme calculated to advance the interests of the Company or its officers or employees.

(O) To co-ordinate, manage, finance, control or otherwise aid any company or companies in which the Company has any interest, whatsoever, to provide consultative, managerial, administrative, technical, commercial and services of all kinds for any such company or companies and to make payments by way of subsidy or otherwise and any other arrangements which may be deemed desirable with respect to any business or operations of or generally with respect to any such company or companies.

(P) To amalgamate with any other company for the purpose of purchasing the whole or any part of the property, undertaking or business or any of the liabilities of the Company, or of undertaking any business operations which may appear likely to assist or benefit the Company or to enhance the value of any property or business of the Company, and to place or guarantee the placing of, underwrite, subscribe for, or otherwise acquire all or any part of the shares or securities of any such company as aforesaid.

(Q) To comply with and be dependant to the provisions (in so far as they are relevant) of Sections 155 to 158 inclusive of the Act and to supply both directly and indirectly any form of financial aid as defined in Section 152(1)(a) for any reason as defined in Section 151(1) and/or Section 151(2) of the said Act.

(R) To secure the Company to be registered or known in any part of the world.

(S) To do all or any of the things or matters aforesaid in any part of the world and either as principals, agents, contractors or otherwise, and by or through agents, brokers, sub-contractors or otherwise and either alone or in conjunction with others.

(T) To do all such other things as are incidental or conducive to the above objects or any of them.

AND so that:-

(1) None of the provisions set forth in any sub-clause of this Clause shall be restrictively construed but the widest interpretation shall be given to each such provision, and none of such provision shall, except where the context expressly so requires, be in any way limited or restricted by reference to or inference from any other provision set forth in such sub-clause, or by reference to or inference from the terms of any other sub-clause of this Clause, or by reference to or inference from the name of the Company.

(2) The word "Company" in this clause, except where used in reference to the Company, shall be deemed to include any partnership or other body of persons, whether incorporated or unincorporated and whether domiciled in the United Kingdom or elsewhere.

(3) In this Clause the expression "the Act" means the Companies Act 1985, but so that any reference in this Clause to any provision of the Act shall be deemed to include a reference to any statutory modification or re-enactment of that provision for the time being in force.

4. The liability of the Members is limited.

5. The Company's share capital is £1,000 divided into 1,000 shares of £1 each.

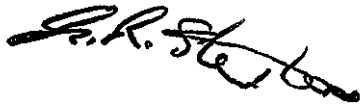
We, the Subscribers of this Memorandum of Association, wish to be formed into a Company pursuant to this Memorandum and we agree to take the number of shares shown opposite our respective names.

NAMES AND ADDRESSES
OF SUBSCRIBERS

NUMBER OF SHARES TAKEN
BY EACH SUBSCRIBER

GRAHAM STEPHENS
16 Churchill Way
Cardiff
CF1 4DX

ONE



SIAN JONES
16 Churchill Way
Cardiff
CF1 4DX

ONE

Dated this First day of March 1999



Witness to the above Signatures:

STEVEN BLACKMORE
16 Churchill Way
Cardiff
CF1 4DX



THE COMPANIES ACTS 1985 TO 1989

PRIVATE COMPANY LIMITED BY SHARES

ARTICLES OF ASSOCIATION OF GRIFFITH & THOMAS (INSTRUMENTS) LIMITED

PRELIMINARY

1. (A) The Regulations contained in Table A of the Companies (Tables A to F) (amendment) Regulations 1985 (hereinafter referred to as 'Table A') shall apply to the Company save in so far as they are excluded or varied hereby and such Regulations (save as so excluded or varied) and the following Articles hereon shall be the regulations of the Company.

(B) Expressions defined in Regulation 1 of Table A shall where the context admits bear in these Articles the meaning so defined.

SHARES

2. (A) Subject to section 80 of the Act and to the following provisions of the Article (B) below the shares comprised in the authorised share capital with which the Company has been incorporated shall be under the control of the Directors and the Directors shall have power to offer, allot, grant options over or otherwise dispose of any shares, to such persons, at such times and generally on such terms and in the manner as they think fit.

(B) (i) The Directors are generally and wholly authorised for the purposes of Section 80 of the Act, to allot relevant securities (as defined in Section 80) provided that the aggregate nominal value of such securities allotted pursuant to this authority shall not exceed the amount of the authorised share capital.

(ii) The authority to allot relevant securities shall expire on the fifth anniversary of the date of incorporation of the Company. The authority hereby given may at any time (subject to the said Section 80) be renewed, varied or revoked by Ordinary resolution of the Company at General Meeting.

(iii) Any offer or agreement in respect of relevant securities, which is made prior to the expiration of such authority and in all other respects within the terms of such authority, shall be authorised to be made, notwithstanding that such an offer or agreement would or may require allotment of the relevant securities after the expiration of such authority, and accordingly, the Directors may at any time allot any relevant securities in pursuance of such an offer or agreement.

(iv) In accordance with Section 91(1) of the Act, Sections 89(1) and 90(1) to (6) (inclusive) shall not apply to any allotment of equity securities (as defined in Section 94 of the Act) by the Company.

(C) All shares which are not comprised in the authorised share capital with which the Company is incorporated and which the Directors propose to issue shall first be offered to the Members in proportion as nearly as may be to the number of the existing shares held by them respectively unless the Company in General Meeting shall by Special Resolution otherwise direct. The offer shall be made by notice specifying the number of shares offered, and limiting a period (not being less than fourteen days) within which the offer, if not accepted, will be deemed to be declined. After the expiration of that period, those shares so deemed to be declined shall be offered in the proportion aforesaid to the persons who have, within the said period, accepted all the shares offered to them; such further offer shall be made in like terms in the same manner and limited by a like period as the original offer. Any shares not accepted pursuant to such offer or further offer as aforesaid or not capable of being offered as aforesaid except by way of fractions and any shares released from the provisions of this Article by any such Special Resolution as aforesaid shall be under the control of the Directors, who may allot, grant options over or otherwise dispose of the same to such persons, on such terms, and in such manner as they think fit, provided that, in the case of shares not accepted as aforesaid, such shares shall not be disposed of on terms which are more favourable to the subscribers therefor than the terms on which they were offered to the Members. The foregoing provisions of this paragraph (B) shall have effect subject to Section 80 of the Act.

3. In regulation 8 of Table A the words "not being a fully paid share" shall be omitted. The Company shall have a first and paramount lien on all shares (whether or not it is a fully paid share), standing registered in the name of any person indebted or under liability to the Company, (whether he/she be the sole registered holder thereof or one of two or more joint holders) for all moneys presently payable by him/her or his/her estate to the Company. The liability of any member in default in respect of a call shall be increased by the addition of the words "and all expenses that may have been incurred by the Company by reason of such non-payment" at the end of the first sentence of Clause 18 in Table A.

4. Subject to the Provisions of Part V of the Act

(A) The Company may purchase any of its own shares, provided that the terms of any contract under which the company will or may become entitled or obliged to purchase its own shares shall be authorised by a Special resolution of the Company in General Meeting before a contract is entered into.

(B) The Company shall be authorised, in respect of the redemption or purchase of any of its own shares, to give any such financial assistance, or to make any such payment out of capital as may be permissible in accordance with the Act, provided that any such assistance or payment shall first be authorised by a Special Resolution of the Company in General Meeting.

GENERAL MEETINGS AND RESOLUTIONS

5. (A) A notice convening a General Meeting must give information to Members in regard to their right to appoint proxies as stated under Section 372 (3) of the Act; and any notices of and other communications relating to any General Meeting which any Member is entitled to receive shall be sent to both Directors and Auditors for the time being of the Company.

(B) No business shall be transacted at any General Meeting unless a quorum is present.

(C) If a quorum is not present within half an hour from the time appointed for a General Meeting the Meeting shall stand adjourned to the same day in the next week at the same time and location or to such other day, time and location as the Directors may determine; if a quorum is not present at the adjourned General Meeting within half an hour from the time appointed therefor such adjourned General meeting shall be dissolved.

(D) Clause 40 in Table A shall not apply to the Company.

(E) If the Company has only one Member, that Member present in person or by proxy or (if that Member is a Corporation) a duly authorised representative shall be a quorum.

6. (A) If the Company has only one Member and that Member makes a decision which is required to be taken in General Meeting or by a written resolution, that decision shall be as valid and effective as if agreed by the Company in General Meeting save that this paragraph shall not apply to resolutions passed pursuant to sections 303 and 391 of the Act. Any decisions shall be recorded in writing and delivered by that Member to the Company for entry in the Company's Minute Book.

DIRECTORS

7. (A) Clause 64 in Table A shall not apply to the Company.

(B) Unless and until the Company in General Meeting shall otherwise determine, there shall be no limitation as to the number of Directors. Whensoever the minimum number of Directors shall be one, a sole Director may exercise all the powers and authorities vested in the Directors by Table A and by these Articles. Clause 89 in Table A shall be modified accordingly.

(C) The Directors of the Company shall not be required to retire by rotation and Clauses 73 to 80 (inclusive) in Table A shall not apply to the Company.

(D) (i) No person shall be appointed a Director at any General Meeting unless either he or she is recommended by the Directors or if not less than fourteen nor more than thirty-five clear days before the General meeting date, notice signed by a Member qualified to vote at the General Meeting has been given to the Company of the intention to propose that person for appointment, together with notice signed by that person of his willingness to be appointed.

(ii) Subject to the above the Company may by Ordinary Resolution in General Meeting appoint any person who is willing to act to be a Director, either as an additional Director or to fill a vacant position.

(iii) In Regulation 84 of Table A there shall be inserted in the third sentence after the words "shall terminate" the parenthesis (unless the terms of his appointment otherwise provides)

(E) In the case where as the result of the death of a sole Member of the Company whereon the Company has no Members and no Directors the personal representatives of the deceased member shall have the right by notice in writing to appoint a person to be a Director of the Company and such appointment shall be as effective as if made by the Company in General Meeting pursuant to paragraph (D) (ii) above.

8. The Directors may exercise all the powers of the Company to borrow money and to mortgage or charge its undertaking, property and uncalled capital, or any part thereof, and subject to Section 80 of the Act, to issue Debentures, Debenture Stock, and other securities whether outright or as security for any debt, liability or obligation of the Company or of any third party.

9. A Director, or any such other person as is mentioned in regulation 65 of Table A, may act as an alternate Director to represent more than one Director, and an alternate Director shall be entitled at any meetings or committees of the Directors to one vote for every Director whom he/she represents in addition to his/her own vote (if any) as a Director, but in relation to determining a quorum he or she shall count as only one.

GRATUITIES AND PENSIONS

10. The Directors may exercise the authority conferred by Clause 3(N) of the Memorandum of Association of the Company and are entitled to retain benefits received by them or any of them by reason of the exercise of such authority. Clause 87 in Table A shall not apply to the Company.

DIRECTORS INTERESTS

11. A Director may vote as a Director on any resolutions concerning any contract or arrangement in which he or she has an interest or upon any matter arising thereout, and if the said Director shall vote on any such resolution as aforesaid his or her vote shall be counted and the said Director shall be reckoned in estimating a quorum when any such contract or arrangement is under consideration. Clause 94-98 (inclusive) of Table A shall not apply to the Company.

INDEMNITY

12. Subject to the provisions of Section 310 and in addition to such indemnity as is contained in Regulation 118 of Table A, every Director, Secretary or other officer of the Company shall be entitled to be indemnified out of the assets of the Company against all losses or liabilities incurred by him or her in or about the execution and discharge of the duties of his or her office.

COMPANY SEAL

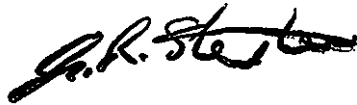
13. The obligation under Regulation 6 of Table A relating to the sealing of Share Certificates shall only apply if the Company has a seal.

TRANSFER OF SHARES

14. The Directors may, in their absolute discretion and without assigning any reason therefor, decline to register the transfer of a share, whether or not it is a fully paid share, and Clause 24 in Table A shall not apply to the Company.

NAMES AND ADDRESSES
OF SUBSCRIBERS

GRAHAM STEPHENS
16 Churchill Way
Cardiff
CF1 4DX



SIAN JONES
16 Churchill Way
Cardiff
CF1 4DX



Dated this First day of March 1998

Witness to the above Signatures:

STEVEN BLACKMORE
16 Churchill Way
Cardiff
CF1 4DX

