

50
YEARS
1968 - 2018

CELEBRATING THE FIRST 50 YEARS
OF QUALITY REED RELAYS



Contents

About our Founder	4 - 5
Where it all Started	6 - 7
Why 'Pickering' Electronics	8
The Birth of Pickering Reed Relays	9 - 13
A Major Supplier in the UK Automatic Test Equipment (ATE) Market	14 - 15
1980: The New Home of Pickering	16 - 18
The Introduction of Single-in-Line (SIL/SIP) Reed Relays	19
The Pickering Construction	20 - 21
Historical Timeline	22 - 23
Pickering Controls Ltd & the Birth of Pickering Interfaces Ltd.	24 - 26
Historical Timeline Continued	27 - 35
Photo Gallery of Exhibitions Over the Years	36 - 39
Photo Gallery of Literature Over the Years	40 - 41
Giving Thanks to Some of Pickering's Longest Standing Employees	42 - 49
Giving Back to the Community	50 - 51



John Keith Moore 1932 - 2017

The founder of Pickering Electronics

About our Founder

John Moore grew up in Halifax, West Yorkshire, in a two-up two-down terrace house, with his five brothers, two sisters, his mother and father, and grandparents. Growing up in this impoverished background gave John a very strong passion and drive to succeed.

After John's 2 years' national service in the Royal Air Force he had several electrical engineering jobs in the 1950's and early 1960's, at companies including Marconi Instruments, where he helped design their first 'White Noise' tester, De Haviland Aircraft and Knowles Electronics. John had very fond memories of his time at Knowles and always spoke of their "stunningly successful" business model.

After landing a new job for a company called Astralux Dynamics in Brightlingsea, John moved to Great Bentley, in Essex. Fortunately, this job did not work out, so he started his own company in January 1968, and this is how Pickering was established, which over the next 50 years grew to employ over 370 people worldwide.

Sadly, John Moore passed away in 2017, but Pickering's 50 year history will continue to be overseen by John's son Keith Moore. "I have every intention to continue the growth of the Pickering Group while keeping John's original values and employee-orientated behaviour", said Keith.

Where it all Started



Pickering Electronics Ltd. Certificate of Incorporation.

1965:



Pickering Electronics parking light.



Original Pickering Electronics parking light box.

Before the birth of Pickering Electronics as we know it today, Pickering was a small start-up firm selling one bulb parking lights for cars that clipped on to the driver's window.

In those days, it was necessary by law in the UK to have a light on cars when parked at night by the roadside. Cars also had to be parked on the correct side of the road. Companies like Halfords, sold a parking light like the one in the illustration, which plugged into the cigarette lighter socket if the car had one, or clipped straight onto the battery terminals. The problem with this was that you had to go out to your car when it got dark to plug it in and again when it got light to unplug it to avoid a flat battery.

Pickering bought standard lights and modified them by adding a simple photo-cell which switched it on at dusk and off again at dawn. Looking at the picture you will see the round photo-cell which faced downwards so as not to be affected by streetlights.

Why 'Pickering' Electronics?

While attending a 3-year management course at Brighton Polytechnic (now Brighton University), John Moore became friends with a man called Peter Pickering. John & Peter decided to set up a company together and at the time, John was also working for a company called Knowles Electronics, and thought that his employer may disapprove of moonlighting, hence the name Pickering, and not 'Moore' Electronics Ltd. After John moved to Essex, Peter was still on the company register as a Director for a few years, before resigning due to not being involved in the company anymore.

John was happy to keep the company name 'Pickering', as if it had been called Moore Electronics, it would be obvious to customers that it was a small company when John visited them as the Technical Sales Representative. He always tried to portray Pickering as a larger, well established company.

The Birth of Pickering Reed Relays

THE BRIDGTON PRESS (LTD.) S 20244

ORDER

SOUND DIFFUSION (SALES) LTD.
 DATUM WORKS
 88-89 DAVIDOR ROAD
 HOVE, SUSSEX
 BN3 1HZ

PICKERING ELECTRONICS LTD
 64 BARNACK STREET
 COLCHESTER
 ESSEX

Date 5th February 1968

PLEASE SUPPLY AND DELIVER:

QUANTITY	DESCRIPTION
	<u>SERIES 10 Reed Relays</u>
5	'A' TYPE - 10-1-C-12VOLT @ 32-6ea.
2	'B' TYPE 10-2-C-12V @ 40-6ea.
2	'C' TYPE 10-2-A-12V @ 26-6ea.
	Reference letter JRM/PM 31/68
	Delivery 14th February
	Std HR 201 4/0 40-700T. Pd=6.67
	MR 906 Ford 600T Pd=6.67
	M: New
	Shipped out per letter Post 15-2-68

PLEASE ACKNOWLEDGE THIS ORDER

For **SOUND DIFFUSION (SALES) LTD.**

DELIVERY G. Willett

All correspondence and orders to be sent to the above address

Sound Diffusion(Sales)Ltd.
 Datum Works
 88-89 Davidgor Road
 Hove
 SUSSEX
 BN3 1HZ

14 February 1968

Your Order No. PO244

Goods enclosed as follows:-

<u>Item 1</u>	-5off 10-1-C-12volt reed relays @ 32-6d ea.	£8-0-5
<u>Item 2</u>	-2off 10-2-C-12volt " " @ 40-6d ea.	£4-1-0
<u>Item 3</u>	-2off 10-2-A-12volt " " @ 26-6d ea.	£5-13-0
	Post & packing	5-0
		£15-1-0

Recd 17-5-68

Despatched By:-
 Pickering Electronics Ltd.
 64 Barnack Street
 Colchester
 Essex

First sales order in 1968.

1968:

On January 1st, 1968 John decided to focus solely on Pickering Electronics and started designing and manufacturing high quality Reed Relays for use by Original Equipment Manufacturers (OEM).

Pickering's first official Reed Relay sales order was for 9 of the Series 10 Reed Relays on 5th February 1968 to a company called Sound Diffusion Ltd. Note the invoice is in Pounds, Shillings and Pence as this was pre-decimal currency.



Pickering Electronics first manufacturing facility, at 64 Barrack Street, Colchester, is now a fish and chip shop.

64 Barrack Street in Colchester is where Pickering was first located in 1968. This small shop was shared with Paul Jones (one of John's colleagues from when he worked for a firm called Astralux, in Brightlingsea, Essex). Paul had some winding machines for winding small transformers which were used for 12 volt fluorescent fittings for caravans, as well as other things. Pickering Electronics' first manufacturing facility can be seen in the top left image, which has been a chip shop from the late 1960s onwards. Keith, John's son and current owner of Pickering, visited the chip shop on what would have been John's 85th birthday, apparently the chips were pretty good (see bottom left image).

Within 6 months Paul and John moved on to 50 Military Road, on the 2nd floor of a 3-story building in Colchester. The building originally had a tin roof and John once said this was arguably the most grotty place in Colchester.

Not long after John and Paul, Dermot Moriarty also set up in the same building, manufacturing Current Transformers. John recalled Dermot to be a very nice man, and a capable electrical engineer. DK Moriarty are still trading today, located in Eastgates Industrial Estate, Colchester.



48 and 50 Military Road, previous Pickering Electronics manufacturing facilities.



Small unit in Brunel Road, Pickering Electronics' first Clacton-on-Sea factory.

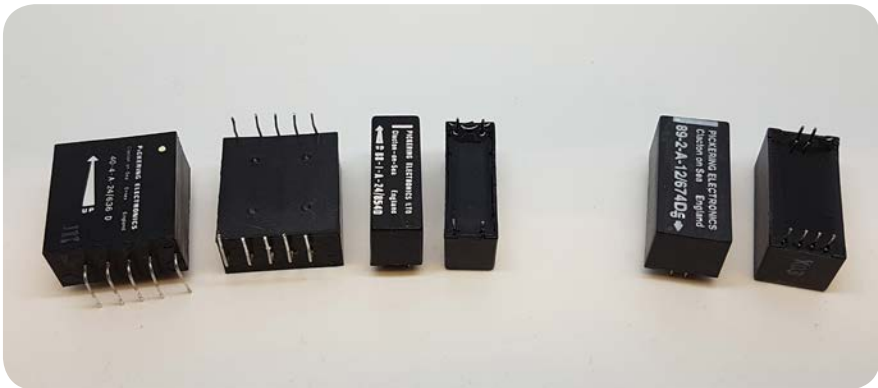
Shortly after, the shop next door, 48 Military Road, became available. John rented it, which was one of the biggest risks he had ever taken. At the time, John had a mortgage that was 9 months overdue, a wife and 7-year-old son to take care of.

John's risk paid off. Pickering ended up with four full time staff members, two of whom were sisters Rosemary and Judy Allen. Rosemary would eventually become John's second wife, and the business steadily expanded at a fairly modest rate.

Pickering stayed there until moving to Clacton in 1974.

In July 1973, John's first wife Alice, saw an advert about some small factory units in Brunel Road, Clacton-on-Sea. Together they went to look at them and decided to purchase one, which was completed in December 1973. This was Pickering's first Clacton-on-Sea factory, which had a mezzanine floor added, more than doubling the production area. As the business continued to expand, Pickering slowly increased in head count.

A Major Supplier in the UK Automatic Test Equipment Market



Special mercury wetted reed relays manufactured for early Marconi Instruments and Membrain Automatic Test Equipment.

1975:

Pickering becomes a major supplier to most UK Automatic Test Equipment (ATE) companies in a growing market.

In the image to the left are 4 Pole relays and Single Pole relays manufactured for Marconi in St. Albans, for use in their very successful System 80 and 80X series of Automatic Test Equipment. Many hundreds of thousands of these relays were manufactured between 1978 and 1984. The 4 pole types were affectionately known here as 'Crabbies'. On the right of the picture are 2 Pole mercury wetted relays manufactured for Membrain in Poole.



Pickering Electronics building being built in 1979.



Pickering Electronics building when first opened in 1980.

The New Home of Pickering

1980:

In 1979, Pickering approached the local council to buy an acre of land to build a purpose built factory, again in Clacton-on-Sea, that would enable Pickering to expand in the future. At the time, Pickering's Production Manager, Klaas Jansma, was very much into railway modelling and designed a scaled model of a factory using railway modelling material, this model was then given to the architect and formed the basis of today's factory. In 1980, Pickering moved into this newly built factory, which was John Moore's pride and joy, to have the best looking factory in Clacton.

Pickering Quality Engineered Reed Relays For You

ASK US FOR A SAMPLE



Please contact us for a free sample and a full catalogue. We can also help you with any technical queries and special models. Our Telephone number is 0255-28141 or Telex 987283.

If not of immediate interest hold this data sheet for future reference. This leaflet contains all the data you require for simple switching circuits using reed relays. Should your colleagues require copies and full catalogues please contact us. We will also be able to assist you with any technical queries you may have.

The new home of Pickering Reed Relays



We have just moved into our new factory. This will enable us to continue expanding in the specialized area of reed relays. We produce a very wide range of catalogue items that switch from microvolts to kilovolts and in addition we design and manufacture several hundred models to customers specific requirements. Typical of these are reed relays for switching RF signals up to a few hundred MHz and from low levels up to 50 watts.

If you have a switching application and you want to discuss it with experts, please give us a ring and we will try to help you.

Pickering Electronics Limited

Stephenson Road, Clacton-on-Sea CO15 4NL England

Telephone: Clacton-on-Sea (0255) 28141 Telex: 987283

Mailer sent out when the new factory first opened.

Introduction of Single-in-Line (SIL/SIP) Reed Relays

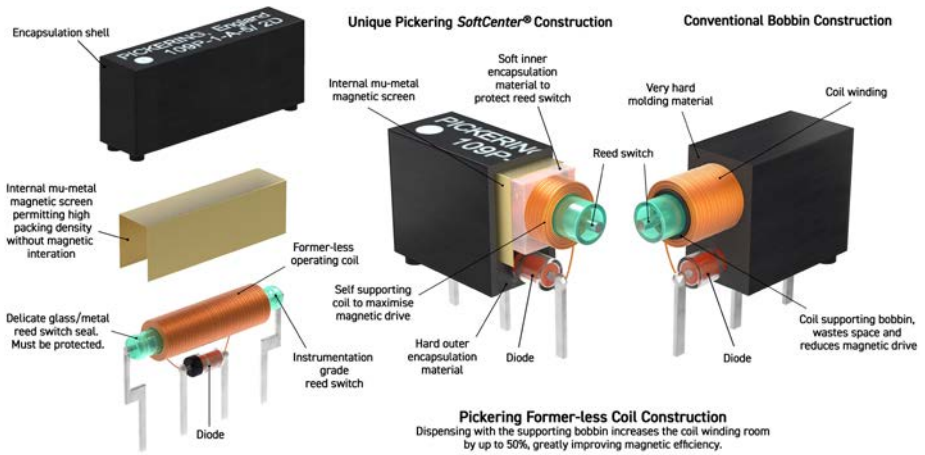
1983:

Introduction of the first Single-in-Line (SIL/SIP) Pickering Reed Relays - the Series 105, including for the first time, changeover and two pole types.



Pickering Series 105 Reed Relays.

Typical Pickering Construction using Former-less Coils and *SoftCenter*® technology



The Pickering Reed Relay Construction

1983:

Pickering established *SoftCenter*[®] Technology to protect the sensitive glass/metal seal of the reed switch capsule, thereby increasing contact resistance stability and life expectation.

Former-less coil construction was also developed to maximize magnetic drive and increase packing density.

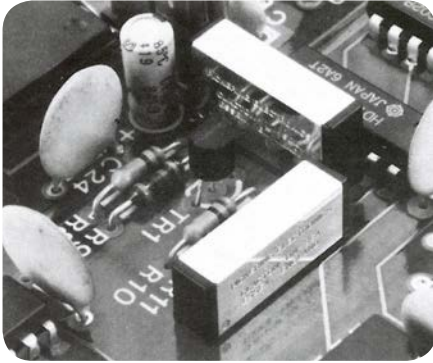
There was very little machinery available in those days for winding former-less coils. Klaas Jansma spent a lot of time researching something suitable. Special Swiss made machinery that was originally designed to wind the operating coils for electronic watches was selected after visiting their factory in Geneva. The first of these machines with the skeining attachment, cost Pickering about £40,000, a very large investment at that time for what was a new technique for manufacturing relays.

Historical Timeline

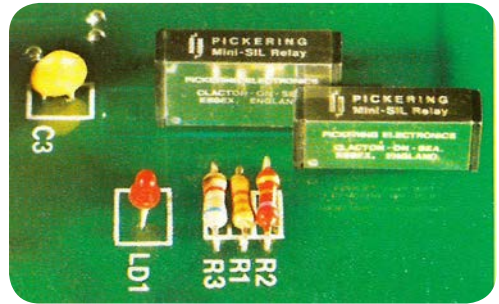


Graham Dale and Klaas Jansma at Pickering Electronics' head office in Clacton-on-Sea.

In the early 1980s Graham Dale, who was formally responsible for reed relay test equipment was moved by John to reed relay design. This was the start of a golden era in Pickering Electronics' development and leadership in high density reed relay design, moving Pickering Electronics from a follower, to becoming a real innovator in high performance reed relay design.



Pickering Series 107
Reed Relays.



1984:

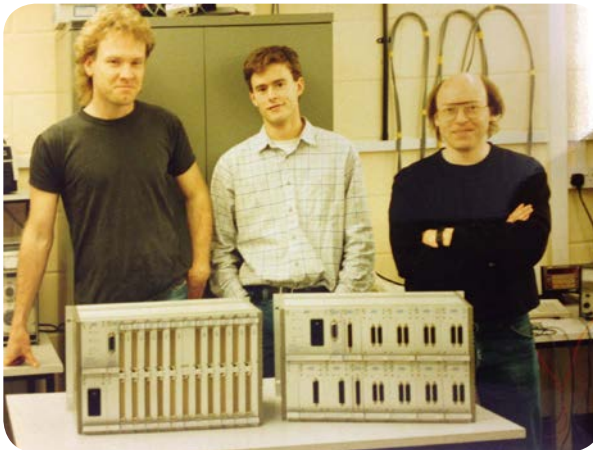
Introduced the first ever Mini-SIL/SIP Reed Relay with a patented Mu-metal screen/can – the Series 107 increased packing density and improved efficiency and reliability.

In the same year, the manufacturing area was tripled in size to 2000m² (20,000 sq ft), due to the company's growing success.

Pickering Controls Ltd & the Birth of Pickering Interfaces Ltd.



Pickering Interfaces Certificate of Incorporation.



Pickering Interfaces' first employees, Keith Moore, Ian Johnston and Dave Howe in front of the first Pickering switching system.

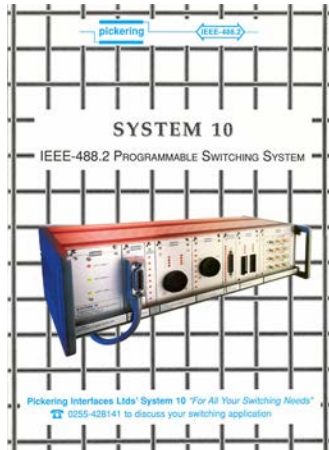
1988:

You may notice that Pickering Interfaces incorporation certificate states an earlier date under the name Pickering Controls. Pickering Controls was originally a sister company of Pickering Electronics designing, manufacturing & distributing fan controllers, that were used for ventilation and heat control in chicken sheds, which housed many thousands of poultry. John decided to focus solely on the Reed Relay side of the business, which was rapidly growing and had gained an excellent reputation for quality in both the UK and continental Europe.

In 1985, Pickering Controls Ltd was changed to the name Pickering Interfaces Ltd. John's son, Keith Moore, started a research and development project to start designing switching systems based on the General Purpose Interface Bus (GPIB).

In 1988, the System 10 was launched to provide a complete modular solution for switching systems.

This was the birth of Pickering Interfaces, which would later become leaders in switching systems based on many other platforms, including PXI, PCI, and LXI.



Pickering Interfaces first literature for the System 10 Switching System (designed using very early desktop publishing software on an Apple Mac).

PICKERING INTERFACES LTD. INTRODUCE **SYSTEM 10 IEEE-488.2 Programmable Switching System**

A fully programmable modular switching system driven from the IEEE-488 bus (GPIB), offering the user a large range of advanced switching modules backed up by custom services for applications.

System 10 has three applications in instrumentation systems using the IEEE-488 bus. Switching modules are available to fulfil most requirements. This includes: 20 to 100 and switching requirements. Modules are available in a variety of formats: conventional switched, digital asynchronous, multiplexed (for data acquisition) and matrix.

Programming facilities for easy implementation, using simple logical languages such as BASIC formats. Comprehensive error reporting software built into the system.

- ✦ Compatible with New IEEE-488.2 Standard
- ✦ Large & Expanding Range of Switching Modules
- ✦ Modular System, 16 Modules Now in Common Reception
- ✦ Special Modules Designed to Customer Requirements
- ✦ Benchtop, Rack & Cold Versions
- ✦ All Switching Modules have Front Panel Indicator LEDs
- ✦ Choice of Switch Connections
- ✦ Internal State Storing Bus
- ✦ Expansion Slots Available
- ✦ Controlled from Many Popular Computers, eg IBM PC with GPIB Card
- ✦ Serial RS-232-C/ Visual-Accessible Terminals
- ✦ Technical Support Telephone Line for all System 10 Users
- ✦ Pickering can Supply its Switching Technology

Pickering Interfaces Ltd manufactures a broad range of programmable switching modules for use in ATE, test, signal and control applications. We are our customers' switching technology, who have specialised in the design and manufacture of quality test units for over 20 years, using a wide range of modern integrated circuit and mixed level in the UK and abroad for test. Pickering Interfaces has a great deal of experience in switching technology. The experience and the use of custom designed test units Pickering Interfaces is available globally to offer Programmable Switching Systems which do not need to involve direct

DIVISION & MANUFACTURED BY:
PICKERING INTERFACES LIMITED
 Enterprise Road
 Crown Lane, Leighton Buzzard,
 Luton, Bedfordshire, LU3 2JF
 England
 Tel: 0255-428141
 Fax: 0255-428158
 Telex: 987205

"To get the best results your switching application requires a wide choice of quality values. This is what Pickering provides!"

Pickering have over 20 years experience in Switching Technology. Discuss your application with engineers, phone 0255-428141 or complete the reply-paid card

Historical Timeline Continued

1988:



Pickering Series 104
Reed Relay.

Introduced the first ever SIL/SIP Reed Relay for high voltage applications – the Series 104.

1989:



Pickering Series 109
Reed Relay.

Introduced the first ever Micro-SIL/SIP Reed Relay for high density applications – the Series 109 required little more than half the board area of any other SIL/SIP Reed Relay on the market at the time, setting a new standard within the industry.

1992:



Pickering Series 110
Reed Relay.

Introduced the first ever Vertical-SIL/SIP Reed Relay for high density applications – the Series 110. The switches in this range were mounted vertically within the package, allowing the use of the same switch types as would normally be found in relays requiring a very much larger board area.

1994:

Pickering became ISO 9002 (BS 5750) certified to ensure commitment to quality and customer satisfaction, as well as continuously improving the company's operations.



2001:

Appointed a representative in Scandinavia - Pickering Interfaces A.B., based in Varberg, Sweden.



Bo Ohrwall, Director of Pickering Interfaces A.B.



Pickering Series 117
Reed Relay.



Pickering Series 116
Reed Relay.

2002:

Introduced the Series 117
- very high density Relays
stacking on a 0.15" x 0.27"
pitch. The highest density
available at that time.

2003:

Introduced the Series 116
- which has an identical
configuration to the Series
117 but a higher profile.
Power rating increased to 10
Watts.

2006:

Appointed a representative in China - Tomtech Mechantronics Co. Ltd.



Johnson Liuqiang, Owner of Tomtech Mechantronics Co Ltd.

深圳市同泰科技有限公司

Pickering supported the European Union's commitment to the Restriction of Hazardous Substances by committing to RoHS compliance and the Lead Free philosophy.



2007:

Opened a factory in the Czech Republic for volume manufacturing.



Pickering Electronics s.r.o.

2008:

Appointed a representative in
South Korea – Leitik Co. Inc.



Leitik Co. Inc. logo.

Appointed a representative in
Taiwan – Winningway Material
Development Ltd.



Winningway Material
Development Ltd. logo.

2011:

Reed RelayMate from Pickering Electronics



Edition 1

Pickering Electronics
Reed RelayMate book.

Published 'The Reed RelayMate' – A practical book about how reed relays work, how they are constructed and how to interpret their specifications and make best use of them in their applications.

2015:

Appointed a representative in India
– Vigven Tech Mark Pvt Ltd.



Vigven Tech Mark Pvt Ltd. logo.

2017:

Appointed Rapid Electronics to
become Pickering's first official
distributor in the UK.



Rapid Electronics logo.

2017:



Pickering Series 120 4mm^2 ™
Reed Relay.

Yet another Pickering first:
Introduced the world's
smallest footprint reed
relay for high density
applications -
the Series 120 4mm^2 ™.



A total of 528 Series 120 relays on
Pickering Interfaces ultra-high-density PXI
module illustrates the packing density of
these extremely small Reed Relays.

Exhibitions Over the Years



Electronica, Munich, 1990: Pickering's first European exhibition.



Electronica, Munich, 1992: British exhibitors were visited by Royal Highness, Prince Edward, The Duke of Kent.

Exhibitions Over the Years

International Test Conference (ITC), 1999:
One of Pickering's first American exhibitions.



International Test Conference (ITC), 2005

Nepcon, USA, 2005



Exhibitions Over the Years



Electronica, Munich, 2006



Exhibitions Over the Years



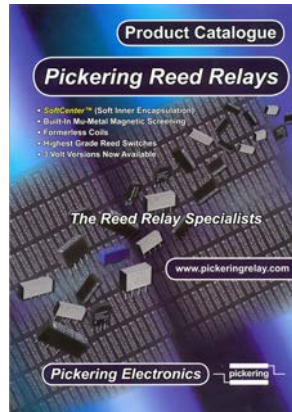
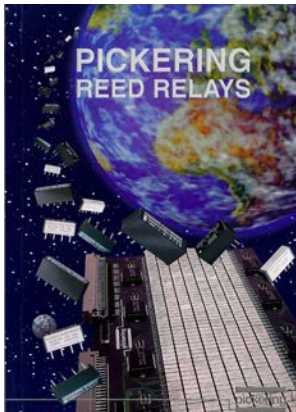
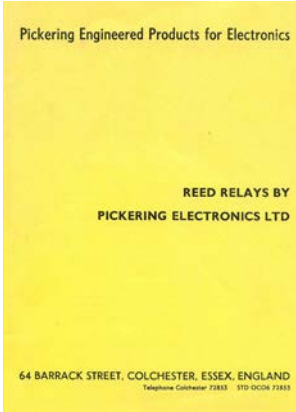
International Test Conference (ITC), 2007



Semicon West, 2014

Literature Over the Years

Catalogues:



Literature Over the Years

Flyers:

Pickering Quality Engineered Reed Relays

Please contact us for a free sample and a full catalogue. We will also help you with any additional special order relay needs. Our Catalogue number is 0055/28141 or Tel: 087283. Ask us for a sample.

New PICKERING Series 80, 85, 88 and 89 Reed Relays

Pickering Series 80 is a range of low cost miniature reed relays, both dry and wetting contact which meet a wide variety of switching applications. 17 particular relays in the 3 coil family extend from 1000 contacts and which only weigh 35 mg, up to 200 contacts and which weigh 715 mg, and can be fitted in a 200 pin DIP package.

- Dry Wet and Wet Form A terminals apart which allow 10 contacts up to 200 contacts (Series No. 1)
- One Form A in a 200 pin package 100 contacts at 1000 volts, Series No. 5
- One in two Form C C-terminated switching 3 coils at 100 volts, Series No. 8
- One in two Form A with mercury wetted contacts switching 10 watts and 1000 volts, Series 88 and 89, and four Form C switching 20 watts
- Standard coil ratings are 5, 12, 18, and 24 volts. All coils have internal magnet mounted in air gap.
- Wide operating coil resistance available, and relay can be designed to customer specific requirements.

Pickering User Friendly Reed Relays

For switching from microswitches to kilowatts, from DC to 100 MHz

Ask us for a sample

Pickering specialises in the design and manufacture of reed relays, both dry and wetting contact, with on-board switches as optional as standard, more for special markets. An important part of this program is to apply rigorous product testing to ensure a reliable high level of quality and reliability. The above photograph shows a relay type 80 - 1 A, 12 V which has just completed a test sequence of switching 1000 W at 10 volts for over 80 million operations without a single failure. During the test the contact resistance never exceeded 150 milliohms. This is typical of our production is a quality product. The following ranges offer some of our wide range of quality reed relays. The main features of the Series 80 and Series 85 will also be outlined to find outstanding high coil resistance which increases that power consumption.

Pickering Quality Engineered Reed Relays For You

ASK FOR A SAMPLE

Please contact us for a free sample and a full catalogue. We will also help you with any additional special order relay needs. Our Catalogue number is 0055/28141

The new home of Pickering Reed Relays

We have just moved into our new factory. This will enable us to continue expanding in the specialised area of reed relays. We produce a very wide range of catalogue items that switch from microswitches to kilowatts and is designed and manufactured several hundred models to customer specific requirements. Typical of these are reed relays for switching HF signals up to a few hundred MHz and from low volts to 100 volts.

If you have a switching application and you want to discuss it with experts, please give us a ring and we will try to help you.

Pickering Electronics Limited
 Dagenham Road, Clacton-on-Sea CO15 4NE, England
 Telephone: Clacton-on-Sea (0535) 28141 Telex: 987283

REED RELAYS

The new single-in-line, SIL, ranges of reed relays from Pickering

All with built-in magnetic screening

Series 107 smallest available stack on 0.2 inch pitch

Series 105 widest range

Series 100 lowest coil current, 1.5 mA at 5 volts

Pickering quality engineered reed relays — ask us for a sample

Pickering Reed Relays the user friendly ones

Switch from microswitches to kilowatts, from DC to 100 MHz

Ask us for a sample

The following are a few items from the wide range of reed relays we design and manufacture

High Voltage switching: up to 1000 volts
 Series 100 High Power Switching Relay C-terminated wetting reed relays

Series 100 High Voltage switching reed relays

Series 80 Series 85

The Reed Relay Specialists

Pickering Reed Relays

STAR FEATURES

- SoftCenter™ (Soft Iron Encapsulation)
- Built-In Mu-Metal Magnetic Screening
- Formless Coils
- Highest Grade Reed Switches

Refer to back page for technical details

ROHS compliant

PICKERING ELECTRONICS - THE REED RELAY SPECIALISTS

Pickering Electronics are manufacturers of High Voltage Reed Relays, DC semiconductor and Automatic Test Relays (ATR), High voltage switching, Low current IAWT, DRY, Wet, SP switching and other specialist applications. Relays are available in Surface Mount Single in-line (SIL), Quad-Line (SL) and many other popular package styles.

Our SIL range is by far the most developed in the reed relay industry with relays 20% the size of many of our competitors.

Pickering Electronics
 www.pickeringrelays.com pickering

Giving Thanks to Some of Pickering's Longest Standing Employees

Klaas Jansma – Business Development Consultant

Pickering's longest standing employee – Klaas has worked for Pickering for just under 44 years. He was originally John Moore's drinking buddy in the local pub and often visited John in the Military Road factory, helping out from time to time. When Pickering Electronics moved to Clacton-on-Sea, Klaas helped to kit out the new factory and built all the work benches.

A short time after this he was invited to join the company. On April 1st 1974, Klaas joined as Production Manager, overseeing all the manufacturing of Pickering relays. One of Klaas's first projects was to review the costing and manufacturing times of each relay made and subsequently, produced the first accurate price list.

As the company grew Klaas became responsible for sales and purchasing. In 2004, Klaas was promoted to Sales Manager and focused on managing the sales team. Klaas is now semi-retired and has taken on the role of Business Development Consultant, focusing on pricing and business strategy.



Klaas retiring from Pickering before eventually returning part time.

Giving Thanks to Some of Pickering's Longest Standing Employees

Graham Dale – Technical Director



Graham has worked for Pickering for 43 years and became John's right-hand man. In John's memoirs of the rise of Pickering Electronics, he spoke very fondly of Graham's work for the company. *'His designs became superb, and they still are. I think Graham is the best reed relay designer in the world'*.

When John Moore sadly passed away in May 2017, Graham Dale commented, *"Pickering has been based in Clacton for over 45 years. In that time, John has seen many hundreds of local employees pass through our doors, some staying with the company for 20, 30, or even 40 years. John always had a very high regard for our staff, considering them to be our most valuable asset. In turn, he was held in high regard by so many and will be greatly missed."*

Giving Thanks to Some of Pickering's Longest Standing Employees

How Graham Dale became an employee at Pickering

In the early 1970s, Graham was at Essex University, working on a research project sponsored by British Telecom. Within the equipment he was designing, quite a lot of Reed Relays were used. However, Graham had a few technical problems with these relays.

Graham was visiting an Electronics Trade Show at Olympia, London, when he spotted a small trade stand with a sign saying 'Pickering Reed Relays'. The man on the stand asked if he could help, that man was John. Graham explained the problems he was having with the relays.

Graham recalls that John was very helpful and it was refreshing for him to talk through the problems with an engineer rather than a salesman. John designed a special relay that did exactly what Graham needed, and he purchased about 200 of them. By today's standards, this may not seem many but as there were only about four people working at Pickering then, it was a very worthwhile order for the company.

Little did Graham know then, that 2 and a half years later, he would be working as an Engineer for John at Pickering.

"Although Pickering is a very different company today, being much larger and selling all over the world, we still try very hard to achieve the same sort of relationships with Engineers, as John did with me forty-five years ago", said Graham.

Pickering Electronics Ltd., Colchester, England.

SPECIAL MODEL DATA SHEET

Name <i>G. Dale</i>	Serial Number <i>510</i>
Company <i>University of Essex</i>	Model Number <i>80-1-A-5/110</i>
Dept.	Date of Allocation <i>18.7.74</i>
Address	Allocated by <i>JRM</i>
.....	Anticipated Quantity <i>150</i>
.....

Special Features

Basic Series <i>80</i>	Basic Case <i>80</i>
Reed Types <i>NR2</i>	Basic Winder
Tolerance <i>50-60 AT</i>	Initial test Date
Coil Turns <i>2500 Turns / 2500</i>
A.T. - Res. <i>94AT. 1500</i>
Must Operate Volts <i>3.75</i>
Must Release Volts <i>0.5</i>

Case Data

Pin Location

Special Data 1

① Use insensitive NR2 to avoid any stick problem
② Fit the B/S screw around reed. (B/S Am.)

Special model data sheet, for Graham Dale, written in John's hand-writing.

Giving Thanks to Some of Pickering's Longest Standing Employees



Kevin Mallett – Director of Operations

Kevin has worked for Pickering for 33 years. Kevin was originally employed as a technician, working on the production and testing of reed relays. He then became the Final Test Department Manager and the Technical Manager giving him a great understanding of Reed Relays and their applications. He also leads the production teams for both UK and Czech manufacturing. Along with Graham Dale, he is involved in all technical issues within Pickering Electronics and the general running of the company as part of the management team.



Lynda Williams – Reed Relay Test Supervisor

Lynda joined Pickering in March 1984 and for the past 34 years has worked in the Test Department, becoming Test Supervisor in the mid '90s.

Giving Thanks to Some of Pickering's Longest Standing Employees

Julie Benson – Purchasing Manager

In 1987, Julie joined as a factory operative and has spent the last 30 years working her way up through Manufacturing, Test, Dispatch and Purchasing departments. In 2011 Julie was promoted to the Purchasing Manager.



Julie Nunn – Production Manager

Julie joined Pickering in 1988 and over the past 30 years has worked in most of the manufacturing departments. Julie worked her way up from a Production Operative, to a Welding Supervisor, then Assistant Production Manager. In 2015, Julie took over as Production Manager, after the sad loss of Pickering's former Production Manager, Steve Oldfield.



Giving Thanks to Some of Pickering's Longest Standing Employees



Sue Proctor – Production Operative

Sue has been working for Pickering as a Production Operative for just under 30 years. Sue has many fond memories of times past at Pickering, she recalls at her first Christmas party, she danced the Lambada with John Moore.



Jenny Lovegrove – Production Operative

Jenny has been working for Pickering as a Production Operative for just under 30 years.



Katharine Huckle – Production Operative

Katie joined Pickering in 1992 and during her first 5 years with the company, she worked in the Soldering and Welding Departments. For the past 20 years Katie has been working in the Test Department.

In Loving Memory and Thanks to Some of Pickering's Longest Standing Employees

John Moore – Founder

The driving force of the Pickering Group, John sadly passed away in 2017. His ambition will forever be an inspiration to all of us at Pickering.



Jan Dale – Office Manager

Jan worked for Pickering for 37 years. In 2014, Jan sadly passed away. Whilst Jan is no longer with us physically, her spirit is always around.



In Loving Memory and Thanks to Some of Pickering's Longest Standing Employees



Steve Oldfield with John Moore celebrating 25 years at Pickering.

Steve Oldfield – Production Manager

Steve worked for Pickering for 29 years. He sadly passed away in 2015 and is missed by his friends and colleagues at Pickering.



Rachel Aylott – Production Manager

Rachel worked for the Pickering Group for a total of 21 years, 13 of which were with Pickering Electronics as Assistant Production Manager, before moving to work for Pickering Interfaces as Production Manager. Rachel tragically passed away in 2011 and is remembered by colleagues as a much loved, hard working and a fun loving lady.

Giving Back to the Community

As the company has grown in revenue, we have been keen to give back to the local community.

Two charities that were close to John Moore's heart were St. Helena's Hospice Tending Centre, in Clacton-on-Sea, and Guide Dogs for the Blind.

Annual donations to Helena's Hospice Tending Centre has allowed for a complete refurbishment of a dedicated space for patient use, to run patient groups within that space, pay for further equipment and the creation of an additional counselling room.



Giving Back to the Community

Having just enjoyed a record year in 2017, with approximately 30 percent revenue growth compared to the previous year, Pickering will continue to give to local charities and will be sponsoring another guide dog in memory of our founder, John Moore.



Pickering sponsored their first guide dog in June 2017 when Rosie, a Golden Retriever, was born.



Rosie came to the factory for her first visit in November 2017.

In addition to this, Pickering wanted to engage with their employees and find out what local charities they are passionate about. For this reason, employees have been encouraged to write in and suggest further sponsorships and donations which focus on supporting children, the elderly, the terminally ill, the homeless and other vulnerable people.

We also appreciate the charitable activities our employees do outside of work to help make our community a better place. This is why Pickering matches the donations employees receive for participation in charitable fundraising walks, runs, bake sales and other voluntary giving activities.

To produce a book of such detail and historical fact could not be accomplished without the help of several people who have contributed information and photographs. We would like to thank all those who have assisted us in the compilation of content for this book - our founder, our directors and employees, past and present; all who have shared their stories, quotes and personal photographs. While we aimed to include the contributions from all our employees and stakeholders, there will be fragments that have been left out due to time restrictions.

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