



REID PRINT TECHNOLOGIES *Innovative Printed Electronics*

At Reid Print Technologies, the will to learn reigns supreme.
The constant pursuit of knowledge propels us forward and helps us grow.

But it doesn't stop there - knowledge is meant to be shared. The ability to teach others what we've learned and pass on that knowledge is a part of our learning process. When we learn, as a lifestyle, we become a stronger, better, more effective team.

WELCOME

“Innovative
Printed
Electronics”

THE CONTENTS

About our company	04
Meet the team	05
Reid Print Technologies & Reid Labs At A Glance	06
Our Services	08
Technologies & Materials	09
Membrane Keypads, Overlay Panels	10
Backlighting Technologies, Capacitive Switching, Waterproof Keyboard & Encoders, Touchscreen Protectors	12
Flexible Printed Electronics & Sensors, Flexible Printed Antennas	12
Smart and Stretchable Printed Electronics	12
Variable Data for Overlay Panels & Labels	12
Duraswitch PushGate	12
Lensed Badging, Rigid Fascia Panels & Nameplates	12
Cutting-edge Sensor Technology	13

ABOUT OUR COMPANY

At Reid Print Technologies, our entire team is committed to providing a truly exceptional level of customer service. This philosophy of always achieving total customer satisfaction, combined with outstanding design, reliability and complete quality control has assisted us in achieving an exceptional product standard.

From the original design concept through artwork production and manufacturing, our dedicated team of professionals at Reid Print Technologies can provide a wide range of quality visual interface products specially tailored to your individual requirements.

The Reid range of products offers numerous benefits over other systems. Emerging technologies including high performance printed electric sensors, IoT devices, and wearable technologies can easily be integrated into your product.

Offering unlimited graphic design capabilities, Reid provides value for money solutions in a dynamic state of the art package with capabilities beyond your most demanding expectations.

Using 100% Australian innovation, input and ingenuity, the design and manufacture of the entire Reid Print Technologies range is carried out at our purpose built facility at Clontarf-Brisbane. Our factory is one of the most automated and robotic in Australia, which allows us to consistently deliver your precision projects flawlessly.



QUALITY APPROVED COMPANY TO AS/NZS ISO 9001:2015 18
REGN. Number 212



QUALITY COMPLIANCE CERTIFIED

We have shown our commitment to quality by mandating that all aspects of our production and office facility conform to ISO 9001:2015 standards.



MEET THE TEAM



**CLEM
JOHNSON**

MANAGING
DIRECTOR



**DEANNA
FROST**

ADMINISTRATION
AND SALES
COORDINATOR

**JUDY
JOHNSON**

FINANCE
DIRECTOR



**TREVOR
JOHNSON**

SALES
DIRECTOR



**CRAIG
JOHNSON**

DESIGN
ENGINEER



**ADAM
JOHNSON**

PRODUCTION
MANAGER



**TRACEY
O'BRIEN**

OPERATIONS
MANAGER

Established in 1990 by Clem Johnson, Reid Print Technologies is proud to be a family owned and operated business. Operating on the north side of Brisbane, we produce Printed HMI Products and Printed Electronics locally in our purpose-built facility at Clontarf.

Our team is comprised of highly skilled professionals, which has allowed us to perform at award-winning standards. This is reflected in our continuous achievements in the Specialty Graphic Imaging Association (SGIA) award programs.



2002 GOLD TOUCH PADS
SCREEN AND DIGITAL PRINT AWARDS



2007 GOLD - NAMEPLATES
SCREEN AND DIGITAL PRINT AWARDS



2011 GOLD PRINTED ELECTRONICS
SCREEN AND DIGITAL PRINT AWARDS



2011 GOLD DIGITAL UNIQUE APPLICATION
SCREEN AND DIGITAL PRINT AWARDS



2013 GOLD COMBINATION OF
TECHNOLOGIES
SCREEN AND DIGITAL PRINT AWARDS

REID PRINT TECHNOLOGIES + REID LABS AT A GLANCE

SMART CAPABILITIES

- Pressure and Touch Sensors
- Thermistors (temperature sensors)
- Force Sensors
- Position Sensors/ GPS
- Tactile Robotic Sensors
- Wearable Technology
- Environment Sensors (moisture, movement, pollution, vibration)
- Delivered by UHF, Bluetooth and Cellular
- Internet of Things (IoT)
- Wireless connectivity

COMMUNICATION METHOD	CATEGORY	OUTPUT	USE EXAMPLES
UHF	GPS	Positioning, Pathway, Route, Distance	Human, Animal, Asset, Valuables, Original, Source/Providence, Hospitals
Bluetooth	Active Sensors	Touch, Pressure, Tactile, Torque	Medical Devices, Sports + Recreation, Original Equipment Manufacturers
Wi-Fi	Environment Sensors	Moisture, Movement, Pollution, Temperature, Vibration	Automotive, Farming, Mining, Manufacturing, Energy, Facilities Management
NFC			



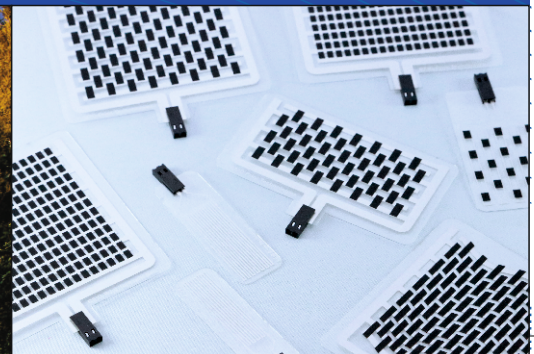
Electronic Print Solutions

- Full internal design capabilities (from sketch to CAD)
- Industry agnostic
- Specialisations; sensor-tech, medical device, wearables and industrial
- Re-design and re-invigoration of existing work
- Highly-sensitive and classified work capable
- Circuitry and microchip mounting and printing design
- Communication methods; UHF, Bluetooth, Wi-Fi, Cellular, NFC
- Full software design/software ready

In-house Capabilities

Engineering, integration, product assembly
Highly advanced, large format industrial digital print capability

- Automatic Screen-printing Machines
- CO2 Laser Cutting Machines
- CNC Router Machines
- Die Cutting Machines
- Thermal Embossing



INDUSTRY WE SERVE

- Defence
- Aerospace
- Medical
- Mining
- Electric Vehicles
- Shipping and Marine
- Sporting and Lifestyle
- And many more...

WHERE YOU MAY HAVE SEEN OUR WORK

- Dashboards for luxury super-yachts
- Electrodes for artificial insemination devices
- Defence transit cases for aerospace
- Pressure sensors for cardiac simulators
- Mining safety monitoring
- Temperature sensor integrated into a child health monitoring suit
- Interface for EV charging solutions

We have close relationships with the CSIRO, numerous universities and leading minds within the industry while working with the latest communication technologies.



WE BRING YOUR DREAMS TO REALITY

Reid Labs combines our extensive electronic expertise with cutting edge software to bring new innovative products to the market with:

- Product architecture
- Full prototype design
- Research and development
- Software engineering
- Full commercialisation and production capability

Electronic Circuitry

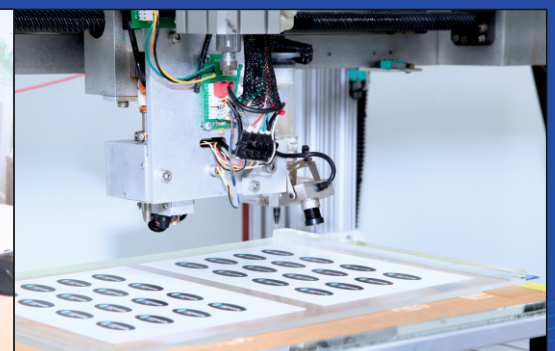
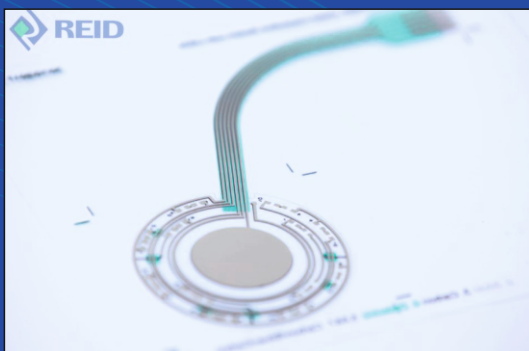
- Radio Frequency Identification (RFID)
- Printed Circuitry
- Printed Antennas
- Vast array of Micro-chips
- Rechargeable or Disposable Batteries
- Surface Mounting
- Global Distribution Network

Electronic Print

- Membrane Switches
- Flexible Printed Circuits
- Electronic Labels
- Overlays
- Back-lighting
- Capacitive Switches
- Waterproof Keyboards and Labels
- HMI Assembly

Smart Electronics (Active RFID with UHF/ Bluetooth /Wi-Fi)

- Flexible Printed Sensors
- Flexible Printed Circuitry
- Flexible Printed UHF and RFID Antennas
- All with UHF/Bluetooth or Wi-Fi capabilities
- Integrated NFC devices
- Wearables



OUR SERVICES

Give your devices an elegant and highly professional look. We develop ergonomic solutions that are resilient and come with an impeccable finish.

If you are looking for the best quality prototype, a single component or a full production run and require support to be provided then you are at the right place. Do business, direct with the manufacturer. Be rest assured as we at REID provide the right guidance and solution, producing locally in our facility in Brisbane Australia, or via our partners in Asia. We have sales representation in all Australian states and New Zealand. We can also organise to have your products shipped overseas.



CUSTOM PRODUCTS

In order to respect our commitments towards our valued clients, a stringent and detailed production follow-up is done on a daily basis. Feel free to contact us at all times for the status of your order.



PROJECT MANAGEMENT

We take great care in the successful completion of each and every project, and we're eager that the results should surpass your highest expectations.



TECHNICAL INFORMATION

Our Product Data Sheets illustrate and disclose all relevant components to all Reid Print Technologies Products. Reid Print Technologies ensures that all product specification are made readily available to our customers. If you require a Data Sheet do not hesitate to enquire now.



HARDWARE AND SOFTWARE PRODUCT COMMERCIALISATION

Through our Reid Labs division, we have access to long standing partnerships across industry allowing us to provide our customers with commercial ready products, including IoT ready hardware linked with sophisticated software.

To provide a truly exceptional range of products and services Reid Print Technologies works closely with a number of partner companies around the world. This allows us to provide best of breed products in each of our product categories. With the high level of technical knowledge we have gained from our partners we are able to combine technologies from different manufacturers with our own core products to provide a cohesive finished product that will exceed customer requirements.



ASSET MANAGEMENT

Managing your product inventory is becoming increasingly important. By placing forward orders, you will always be assured your place in the production queue, Reid Print Technologies is at the forefront of making this process seamless.

QUALITY PRODUCT

We work together with our customers to ensure that the manufacturing process and supply chain is streamlined so that only the best quality product is the result.

TECHNOLOGIES & MATERIALS

PRINTED SOLUTIONS

Transparent windows, gloss overprint, filtered windows, mirror inks, translucent windows, selective texture printing, pearlescent and metallic inks, dead front.

ENHANCEMENTS & FINISHING

Lasercutting, die cutting, embossing, backing panels, assembly to PCB or enclosure, QA assurance checking, keypad testing.

WHY CHOOSE POLYESTER OVER POLYCARBONATE?

The polyester film offers longer life and better resistance to solvents and UV exposure. Polyester film was specifically designed for the constant flexing that is experienced by a membrane switch and will not harden and crack as polycarbonate is prone to do. Once again, unless specifically requested or detailed otherwise all membrane keypads manufactured by Reid Print Technologies

utilise polyester rather than polycarbonate. Types of finishes: Fine, velvet (outdoors), anti-glare, gloss, soft touch, steel, antimicrobial, polycarbonate - matt/velvet, velvet/gloss, gloss/gloss (doesn't apply to keypads).

WHY INCLUDE A CARBON PRINT LAYER?

A number of our competitors currently promote membrane keypads that do not include a carbon print layer. This print layer prevents a phenomenon known as 'silver migration' whereby silver particles in the trackwork migrate across gaps forming shorts between tracks.

Unless specifically requested, all keypads produced by Reid Print Technologies include the carbon print layer. Does your current keypad have a carbon print layer? If at least one side of the trackwork is not dark grey or black then it is missing the carbon layer.

DESIGN ENGINEERING & PROTOTYPING

DIGITAL PRINTING & CUTTING

ENHANCEMENTS & FINISHING

DURABLE SCREEN PRINTING

PRINTED ELECTRONICS



OUR PRODUCTS

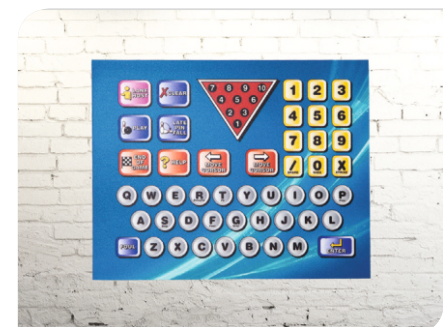
MEMBRANE KEYPADS

Membrane Keypads are an economical alternative to conventional mechanical switches, and have become increasingly used in a wide range of sophisticated electronic applications and industries. The membrane switch can take the form of a complete graphic interface panel or simply flexible printed circuit. Printed circuit such as this are well suited for use with silicone keymats and allow designs to be realised that would otherwise not be possible with conventional PCB's. As the front surface of the keypad is essentially an overlay panel, all the design options that are available for overlays apply to membrane keypads.



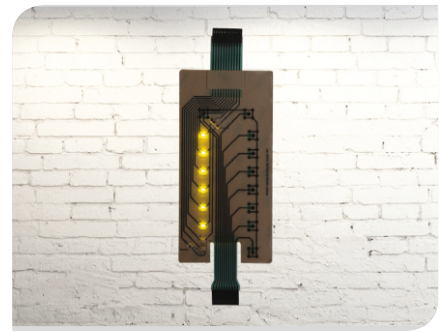
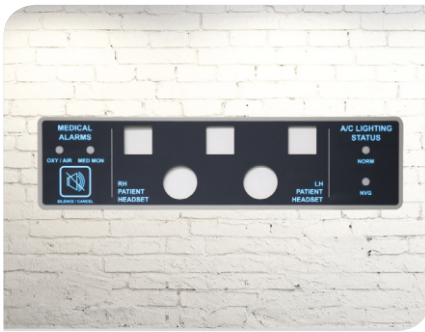
OVERLAY PANELS

Graphic Overlay Panels significantly enhance the appearance and functionality of a visual user interface. They are commonly used to combine several different switch and display technologies and components as well as for product identification and information, into an integrated and user-friendly interface. Overlay Panels are used to provide the graphic layer for membrane switches and EL lamps and can also be used as a surround for touchscreens or displays.



BACKLIGHTING TECHNOLOGIES

Backlighting is a technology used for a variety of uses. One of the most common uses for backlighting is warning text or warning symbols. Used across many different industries, you're likely to see backlighting in industries such as aerospace and industrial design. We offer three different backlighting options, within which creates endless lighting possibilities. At Reid Print Technologies we can offer the following styles of backlighting technologies, Electroluminescence (known as EL), Lumitex and, LED Backlighting.



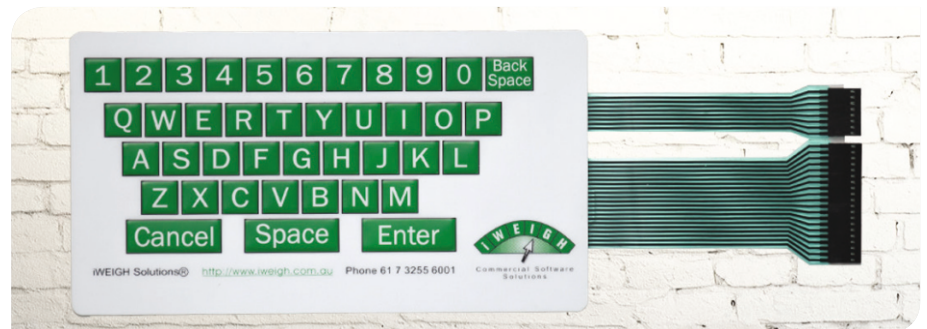
CAPACITIVE SWITCHING

Want to know what capacitive switches are in simple terms? We're talking about a sealed unit with no moving parts and a flat surface panel. There can be buttons or slider options to press, which can be built into the panel.



WATERPROOF KEYBOARD & ENCODERS

The Keyboard Encoder Module Functions both in USB and PS2 interface environments. For PS2 interface, it supports IBM PC/AT, PBM PS/2 and all compatible machines and provides a 16 - character first-in-first-out buffer in which data is stored. For USB interface, it can support the USB standard request as well as HID class request version 1.1.



TOUCHSCREEN PROTECTORS

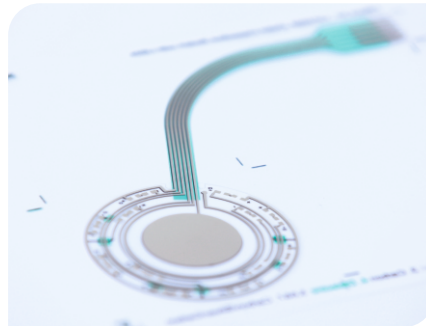
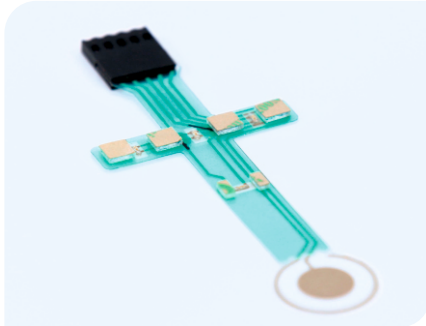
Safeguard your touchscreen from scratches and wear and tear with a sacrificial industrial grade Touchscreen Protector.

Touchscreen protectors are made from durable Anti-glare Polyester and can be fitted to any standard Touchscreen terminal.

Easy peel adhesive allows for hassle free replacement.

FLEXIBLE PRINTED ELECTRONICS & SENSORS

We offer engineering support for design, prototyping and final product manufacturing of various flexible sensors. We have extensive experience in procurement of high specification materials used in the Defence Industry.



SMART AND STRETCHABLE PRINTED ELECTRONICS

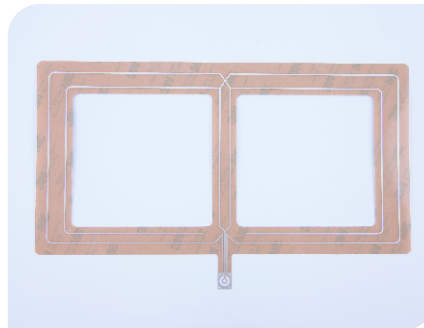
Smart stretchable ultra-thin electronics is a technology used for a variety of purposes in flexible sensors.



FLEXIBLE PRINTED ANTENNAS

With the advent of Internet of Things (IoT), every wireless network system will need a well thought combination of relevant printed sensor and printed antennas for effective machine-to-machine (M2M) communications.

- Applications suitable for industries like Commercial Vehicles, Defence, Aerospace and Mobile Devices based on long and short range communication.
- Bi-Squared, UHF and Micro Strip Antennas.

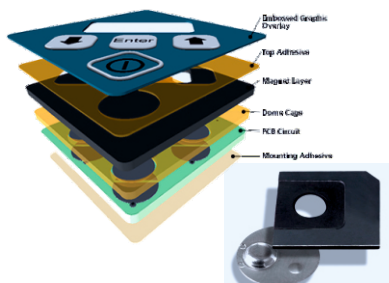


VARIABLE DATA FOR OVERLAY PANELS & LABELS

By utilising a digital workflow with automated software, we can seamlessly output variable data in many formats, whether that is consecutive numbering or barcodes. Graphic overlays and labels can be first or second surface printed depending on your environmental requirements.

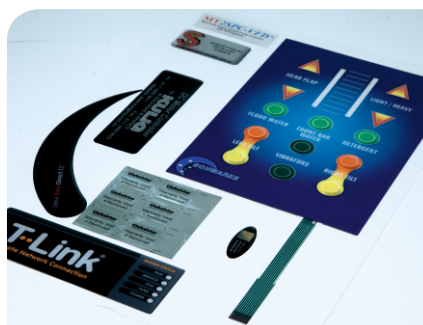
DURASWITCH PUSHGATE

The Duraswitch PushGate® is a unique patented push button design that combines the advantages of discrete mechanical and flat panel membrane switches with a host of other benefits that make it ideal for next-generation products.



LENSED BADGING

In addition to our core product range we also offer a range of badging and labelling solutions for your products. These solutions can include variable data.



RIGID FASCIA PANELS & NAMEPLATES

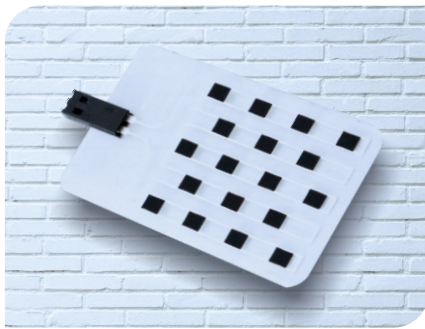
Reid Print Technologies can easily create a range of name plates and CNC routed plastic fascia panels to suit any application.



CUTTING-EDGE SENSOR TECHNOLOGY

POSITIVE TEMPERATURE COEFFICIENT (PTC) WEARABLE HEATERS

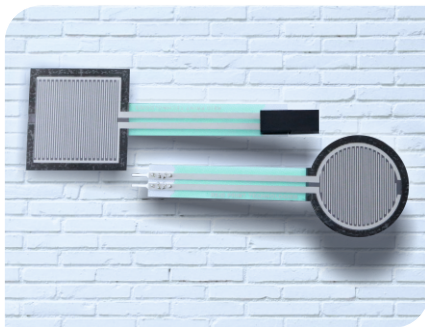
Through utilising specialised inks, Reid Print Technologies offers a wide range of Positive Temperature Coefficient (PTC) Heaters with full capability to be integrated into wearable technologies. PTC Heaters are made to order, allowing for full customisation of various sizes, shapes and configurations. PTC Heaters are commonly used to enhance apparel items such as jackets and boots.



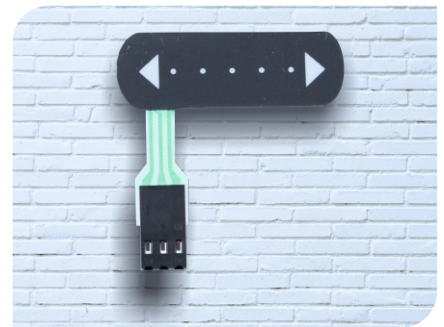
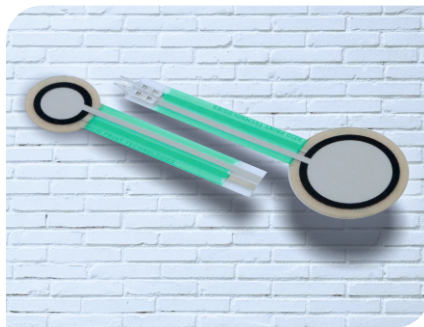
FORCE SENSING RESISTORS (FSR)

Force Sense Resistors, also known as FSR are pressure sensors that can be custom made to a multitude of resistance configurations, sizes and shapes. FSR are made by printing carbon-based specialised inks on to a flexible substrate. It is also important to note that there are two main types of FSR, that being Thru Mode and Shunt Mode.

SHUNT MODE



THRU MODE



VITAL MONITORING

Made possible through our advanced printing technologies, Reid Print Technologies offers a wide range of sensors designed for vitals monitoring.

Our sensors are the preferred technology for the integration into wearables. Technologies available for wearable vital monitoring include the following:

- Heart Rate Monitoring
- Sweat Monitoring
- Respiration Monitoring
- Blood Pressure Monitoring
- Blood Oxygenation Monitoring

As pictured, our flexible circuitry is designed to be integrated on to a wide variety of materials, including apparel garments.





REID LABS PTY LTD
ABN: 14 645 337 391



REID
PRINT TECHNOLOGIES
Innovative Printed Electronics

REID INDUSTRIAL GRAPHIC PRODUCTS PTY LTD
Trading as REID PRINT TECHNOLOGIES
ABN: 13 062 533 822



Office: 1300 765 533
Fax: +617 3889 5544



sales@reidprinttechnologies.com.au
www.reidprinttechnologies.com.au



6 Oasis Court,
Clontarf Queensland 4019