## Creating global HMI solutions



## SWITCHING TECHNOLOGIES, OUR CORE BUSINESS

ORGANIZED IN 3 BUSINESSES, APEM'S HMI SOLUTIONS ARE DESIGNED, FULLY TESTED AND QUALIFIED FOR DEMANDING APPLICATIONS.
THEY GUARANTEE THE HIGHEST LEVEL OF ROBUSTNESS AND RELIABILITY TO MEET/INTERNATIONAL STANDARDS.

## MORE THAN JUST A SWITCH

IF YOU ARE LOOKING FOR PCB SWITCHES THAT CAN MEET YOUR HIGH DEMANDING NEEDS FOR FINE DESIGN AND RELIABILITY, THEN YOU HAVE ARRIVED IN THE RIGHT PLACE.
MEC SWITCHES, APEM'S HIGH PERFORMANCE TACTILE SWITCHES ARE SO MUCH MORE THAN JUST TACT SWITCHES.

## COMPONENTS

Toggle, pushbutton, rocker, slide, tact and rotary switches, industrial controls LED indicators, for panel or PCB: APEM offers the broadest range in these switch markets.


JOYSTICKS
Easy to operate and highly reliable, APEM joysticks are suitable for all size and shape requirements from thumb and finger operation to full hand grip products.


PANEL SOLUTIONS Relying on APEM's already qualified product ranges and mastery of the main panel technologies, the teams are able to design complete and fully customized HMI solutions for customers.


- VERSATILE

OVER 2000 STANDARD OPTIONS WITHIN THE CAP AND ACCESSORY RANGE

## > RELIABLE

NOT JUST LONG LIFETIME OR ROBUST OR SEALED THE SWITCHES ARE THE WHOLE PACKAGE.

NORDIC
WE ADD A TOUCH OF DANISH DESIGN TO THE COMPONENT INDUSTRY.


## STANDARD CAP SELECTION

ROUND



[^0]

ILLUMINATED


## OTHER SHAPES



ACCESSORIES


MODULES

## NAVIGATE A UNIT OR A DISPLAY WITH A NAVIGATIONAL SOLUTION

When navigating a machine or display, your eyes are focused on the object and not on the control panel, which means the controls themselves have to be easy and intuitive to use
It can be a traditional unit - 2 directional (Rockermec) or 4 directional with a confirmation in the middle (Navimec and Controlmec). However, it can also be something unique. With the help of our round, square and triangular caps, you can design a panel that fits your exact needs.


## QUICK STATUS FEEDBACK WITH ILLUMINATION

In a dark environment, safety critical or any other application, illumination is an excellent way to make your control panel more intuitive to use. It can be used to guide the user, give status feedback, point out the to guide the user, give status feedback, point out the control panel.
There are many options to consider and choose from when it comes to illumination
Choose from a single, bicolor or RGB; color and
intensity; consistent or blinking; spot, full or legend
illumination; status light in the bezel or perimeter light to guide the finger. There is even an NVIS option for the military market.


DO NOT COMPROMISE FINE DESIGN IN A DEMANDING ENVIRONMENT


For years, high technical requirements have meant rough looking components, but no more The MEC range allows for panel sealed robust solutions with a fine look and feel. The solutions we offer are compact and customizable by color, illumination and markings
The modular system of the product range provides the opportunity for designing the same control panel with or without the sealing allowing you to be flexible in your production.


EXTRA RELIABILITY FOR SOLUTIONS UNDER AN OVERLAY

The benefit of using a MEC switch under an overlay is that when the overlay wears down and breaks, th switch is sealed and therefore still operational.
Furthermore, it allows for more Furthermore, it allows for more
interesting design by making it interesting design by making it of illumination.


| 1TS | 1US | 102c | 100 |
| :---: | :---: | :---: | :---: | :---: |

## SIMPLIFY THE USER EXPERIENCE

 WITH MARKINGS

## GIVE A PERSONAL TOUCH WITH DIFFERENT MATERIALS

You want to stand out, give a unique and exclusive user experience
You want to match the control panel with the front panel material or it can be for safety reasons, so the control panel can handle the environment it is placed in.
Whatever the reason, it is worth considering other options besides the standard ABS and polycarbonate.


WHAT CAN I DO?
Here are some options
for your inspiration

## DESIGNMEC

Pick your own deco piece material
Soft paint - give the cap a soft rubber feeling
Metal look - add a Chrome coating for a cool modern feel
Different type of plastic

## PARTNER UP FOR A NEW CAP



Sometimes standard options will not do. It can be that your application has an odd shape or height, or you are looking for something unique. Whatever your reason we can help you with a taylor-made solution.
All the production processes for MEC switches are in-house, which means that we can be very flexible and quick when providing prototypes and arranging production of the final product
Furthermore, we have the largest standard accessory range for tactile switches on the market - we know how to build new solutions

Want to know what it feels like to partner up with MEC for a custom project?
See our video with Jeremy from See our video with Jeremy from APEM UK Sales, who has a wealth of custom projects under his belt


NEED HELP COMING UP WITH QUICK PROTOTYPES?


See our webinar for some useful tips and tricks.


## SWITCH <br> SELECTION



OLDIE BUT GOODIE UNIMEC

Do you need redundancy?
This switch comes packed with
8 contact function possibilities.
It has a long lifetime and can be
either momentary or latching.


THE GO-TO SWITCH MULTIMEC


Did you know that a grown man can stand on a Multimec switch and it will still function normally afterwards?
Multimec switch series is the whole package - in one footprint and size, you get sealing to IP67, lifetime of more than 10 mil activations, NC/NO function option, and possibility for integrated LEDs.
All of that with a large selection of standard keycaps and accesories making this modular series one of the most versatile tactile switch series on the market.

MULTIMEC 3 SERIES

## TECHNICAL FEATURES

| TECHNICAL FEATURES | - NO |
| :--- | :--- |
| - $10 \times 10 \mathrm{~mm}$  <br> - $\mathrm{h}=6.4 \mathrm{~mm}$ - TH, SMD or TH RAS <br> - IP67 - single pole <br> - $10,000,000$ cycle-lifetime  <br>  •integrated 3 mm LED option |  |



## MULTIMEC 5 SERIES



## ONE FOOTPRINT - MANY OPTIONS

|  | non-illuminated | illuminated single color | illuminated bicolor | NC/NO |
| :---: | :---: | :---: | :---: | :---: |
| TH |  |  |  |  |
| SMD |  |  |  | $\underbrace{12.50}_{4}$ |

## WHEN GOOD IS NOT ENOUGH

THE STORY OF MULTIMEC



How is the quality guaranteed?
Multimec switches are produced on automatic production lines with 100\% in-line testing.
Be assured in the quality assurance process for Multimec switches by seeing how we provide consistent quality for these high perfomance switches.
MEC takes on a challenge
We do not back away from a challenge: The story behind creating the NC/NO function in the Multimec switch.

## NEW KID ON THE BLOCK ULTRAMEC

Ultramec is the smallest switch series with the brightest future in the MEC range.
Ultramec series includes two versions of the 6C switch a single pole version and a -pole version we call Dualmec. Dualmec
However, the base is built to allow for new functionalities to come in the future to make switch on the market.


## ULTRAMEC 6C

## TECHNICAL FEATURES



DUALMEC 6C



WHY BUILD
YOUR COMPLETE HMI WITH MEC SWITCHES? Let our Project Manager for Panel Solutions give you the reasons.


## NOT FINDING YOUR HMI? <br> LET'S DEVELOP IT TOGETHER !

With robust development processes, and with the support of experts in ergonomics and design, APEM offers a unique expertise in HMI customization. APEM engineers will recommend the best ergonomics, shape, marking, backlighting, material, waterproofing, connectors... in line with your expectations and environment.

Depending on your needs, APEM can recommend fully customized products ("customer exclusive") or a custom design with already qualified HMI components, joystick handles and joystick bases.

CONTACT US

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[^0]:    NON-ILLUMINATED AND ILLUMINATED

