

# HYBRID DUAL TOUCH

Safely securing your touch input

## Today's challenge:

The touch input on HMI systems is increasingly entering the world of critical applications - but how can a correct and persistent touch input be assured?

The urgent need for a secure and safe touch input especially under rough, noisy and wet conditions is increasing. This applies for all applications where human well-being and / or machinery is at risk.

## Effective and affordable solution:

The combination of two well established and proven touch technologies in ONE touch screen product offers a technology-based redundancy and secure touch input.

Both technologies „monitor“ the touch inputs and are programmed to either take over each others functionality or compliment each other if needed.

## Technological overview:

Resistive Touch Screen

PCAP Touch Screen

HYBRID Touch Screen

Decorative Film with printing
Resistive ITO-Film
Resistive ITO-Glass

Cover Glass
PCAP Sensor

Decorative Film with printing
PCAP Sensor
Resistive ITO-Film
Resistive ITO-Glass

## Application examples for the HYBRID Touch Technology

### “AND” - Combination:

Touch output only after activation of **BOTH** technologies

	RTP Techn.	PCAP Techn.	HYBRID OUTPUT
Touch 1	1	0	0
Touch 2	0	1	0
Touch 3	1	1	1

### “OR” - Combination:

Touch output after activation of **ONE** or both of the two technologies (Redundancy)

	RTP Techn.	PCAP Techn.	HYBRID OUTPUT
Touch 1	1	0	1
Touch 2	0	1	1
Touch 3	1	1	1

### Slide & Press:

Touch output only after applying **PRESSURE!**  
**Slide** (PCAP) + **Press** (RTP)

	RTP Techn.	PCAP Techn.	HYBRID OUTPUT
Touch 1	1	0	1
Touch 2	0	1	0
Touch 3	1	1	1