

Display technology criteria at first sight

For a pre-selection of a suitable display technology for your development, we have provided this comparison sheet of the most important criteria. This list is intended to allow an initial assessment and does not claim to be exhaustive. Base for the contrasting juxtaposition are exclusively industrial and consumer applications. Special assignment from the respective display technologies were not observed for this comparison sheet.

Specific application criteria	E-Paper			TFT		PMOLED		LCD					
	Segm.	Graph.	Flex.	IPS	TN	Full Color	Mono-chrome	Graph.	Segm.	Graph.	Segm.	Graph.	Segm.
Operating temperature	0°C - +50°C			-20°C - +70°C				-10°C - +55°C					
Operating temperature-freeze	-10°C - +10°C												
Operating temperature-deep freeze	-25°C - +10 °C												
Ultra wide temperature	✗			-30°C - +85°C		-40°C - +105°C		-30°C - +85°C					
Storage temperature	-25°C - +70°C			-30°C - +85°C		-40°C - +105°C		-20°C - +65°C					
UV protection	optional			optional		optional		optional					
Sunlight readable	★★	★★	★★	★	★	✗	✗	★★	★★	★	★	✗	✗
Viewing angle	★★	★★	★★	★★	★	★★	★★	to be defined					
Bistabile display	★	★	★	✗	✗	✗	✗	available		✗	✗	✗	✗
Backlight	✗	✗	✗	★★	★★	✗	✗	✗	✗	★	★	★★	★★
Thickness display unit	★★	★★	★★	medium		★★	★★	high					
Lifetime	dep. on application			★	★	dep. on appl.		★★	★★	★★	★★	★★	★★
Refresh time	higher than other			★	★	★	★	★	★	★	★	★	★
Customization possible	★	△	★	△		★	★	★★	★★	★★	★★	★★	★★
★★ very good ★ good ✗ not available △ high volume ADKOM™ Elektronik GmbH													