

➤ HMI Touch Panels-

Touch connection with only one cable

The product line of the HMI Touch Panels with various display sizes from 10.4" up to 19" is 100% industry-capable and meets toughest industrial requirements concerning shock, vibration and temperature resistance. In conjunction with the HMI Panel PCs or other PCs providing RIIDM® interface like BOX PCs (e.g. SC75) the touch connection can be realized with only one cable which remains highly flexible and has proved itself even under difficult complex industrial conditions, for instance in a pivot-arm of a machine. The connection of the Touch Panels is effected by the Industrial Interface for Digital Monitors (RIIDM®), which was optimized for industrial applications in particular. This standard is based on the well-known TMDS™

protocol. However the interfaces were optimized especially for industrial users in the automation area.

This way, in addition to the transmission of the image data, the complete 12V backlight supply and the 5V display supply were integrated. For a monitor resolution of XGA (1024x768) cable lengths up to 15 metres with one single cable can be realized (30 metres are on the roadmap). A further requirement in the industrial area is Electromagnetic Compatibility (EMC). All related norms and directives concerning radiation and emission are fulfilled. Therefore RIIDM® standard can be also applied in highly sensitive areas of medicine.

➤ HMI Detached Displays / Touch Panels



Features	104	121	150	170	190
Display	10.4"	12.1"	15"	17"	19"
Max Cable Length (Single Cable)	15 m	15 m	15 m	10 m	10 m
Max Cable Length	30 m	30 m	30 m	15 m	15 m
Resolution	640x480	800x600	1024x768	1280x1024	1280x1024
Brightness	350cd/m ²	300cd/m ²	250cd/m ²	250cd/m ²	250cd/m ²
Touch Screen	Resistive analog				
Function Keys	optional 16 up to 112 freely programmable keys				
Dimensions (mm) (H x W x D)	295x325x56	327x400x56	362x452x56	390x465x66	t.b.d.
I/Os	USB frontside optional				
Power Supply	none				
EMC	US: FCC47 CFR PART 15; Class A level CE: EN61000-6-2; EN55022/A (CISPR22);				
Approvals	CE, FCC, cULus				
Protection Class	IP 65 front (NEMA 250 Type 12 and 13)				
Altitude	Operating: 10,000 ft (3,048m), storage: 15,000 ft (4,622m)				
Shock DIN EN 60068-2-27	Operating: 15G, 11ms duration / Storage: 50G, 11ms duration (half-sinus)				
Vibration DIN EN 60068-2-6	Operating: 10-500Hz: 1G / 3 axis / Storage: 10-500Hz: 2G / 3 axis				
Temperature/Humidity	Operating: 0°C to +50°C / 5 to 95% non condensing; Storage: -25°C to +70°C / 5 to 95% non condensing				
MTBF	> 40000 h *				

*) exclusive Backlight Tube