SHARK KVM Operator Stations
Series 600

- SHARK Operator Station in "rugged design" as KVM system
- Data transmission CAT7 (<150 m), fiber optic single mode (<10 km), multi-mode (<550 m)
- For Zones 1, 21 / 2, 22 / Class I, Zone 1 / Class I, Zone 2 / Class II, Div. 2 / Class III
- ATEX, IECEx, EAC, NEC, CEC, PESO, CNEx, CCC and RCM
- Extended temperature range: -40 °C ... +65 °C

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The rugged design SHARK KVM systems have been developed for **extreme ambient conditions**: they are shock, vibration, saltwater and salt-spray-proof and have IP66. They have a modular design, consisting of a display module and an Electronic Box. In case of repair / maintenance, one of the two modules can be easily replaced. The Panel PCs / Thin Clients transmit data via dual Ethernet CAT7 or fibre optics, WiFi as an additional option. The sunlight-readable displays are multi-touch screens with an integrated front camera. The E-Box can be fitted with type Intel Core i5 or AMD GX processors. Optional accessories include RFID readers, barcode readers and a Bluetooth interface for headsets / keyboards.

Selection Table					
HMI type Product description	Rugged Panel 15" KVM system				
Product Type	Application range (zones)	Interface medium	Data cable length	Art. No.	Weight
ET-638-DVI3-1LX	1 2 21 22	Single mode optical cable	max. 10 km		-
ET-638-DVI3-1SX	1 2 21 22	Multi-mode optical cable	max. 550 m, with 50 µm FO cable max. 300 m, with 62.5 µm FO cable		-
ET-638-DVI3-1TX	1 2 21 22	CAT7 Data transmission	max. 150 m		-
MT-638-DVI3-1LX	2 22	Single mode optical cable	max. 10 km		-
MT-638-DVI3-1SX	2 22	Multi-mode optical cable	max. 550 m, with 50 µm FO cable max. 300 m, with 62.5 µm FO cable		-
MT-638-DVI3-1TX	2 22	CAT7 Data transmission	max. 150 m		-

SHARK KVM Operator Stations

Series 600

STAHL

Selection Table

HMI type Product description	Rugged Panel 21.5" KVM system				

Product Type	Application range (zones)	Interface medium	Data cable length	Art. No.	Weight
ET-698-DVI3-1LX	1 2 21 22	Single mode optical cable	max. 10 km		-
ET-698-DVI3-1SX	1 2 21 22	Multi-mode optical cable	max. 550 m, with 50 µm FO cable max. 300 m, with 62.5 µm FO cable		-
ET-698-DVI3-1TX	1 2 21 22	CAT7 Data transmission	max. 150 m		-
MT-698-DVI3-1LX	2 22	Single mode optical cable	max. 10 km		-
MT-698-DVI3-1SX	2 22	Multi-mode optical cable	max. 550 m, with 50 µm FO cable max. 300 m, with 62.5 µm FO cable		-
MT-698-DVI3-1TX	2 22	CAT7 Data transmission	max. 150 m		-

Technical Data

Variant	ET-638-DVI3-1LX	MT-698-DVI3-1LX
Explosion Protection		
Application range (zones)	1 2 21 22	2 22
Application range (divisions)	Class I, Zone 1 Class I, Division 2 Class II, Division 1 and 2 Class III	Class I, Zone 2 Class I, Division 2 Class II, Division 2 Class III
IECEx certification	IECEx BVS 14.0116X	IECEx BVS 14.0116X
ATEX certification	BVS 14 ATEX E 134 X	BVS 14 ATEX E 134 X
Scope	EU (CE / ATEX) International (IECEx) USA (NEC) Canada (CEC) China (CCC / CNEx) India (PESO) Australia (RCM)	EU (CE / ATEX) International (IECEx) USA (NEC) Canada (CEC) China (CCC / CNEx) India (PESO) Australia (RCM)
Electrical Data		
Rated operational voltage AC	230 V	230 V
Rated operational voltage DC	24 V	24 V
Ambient Conditions		
Ambient temperature operation	-10 °C … +65 °C	-10 °C … +65 °C
Storage temperature	-40 °C … +70 °C	-40 °C … +70 °C
Display		
Display size inch	15	21.5
Total pixels	1024 x 768	1920 x 1080
Display version	TFT colour display or sunlight-readable display	Sunlight readable display
Display dimensions	4:3	16:9
Display brightness	TFT 450 cd/m² SR 1200 cd/m²	1000 cd/m²
Display contrast	TFT 500:1 SR 600:1	1100:1
Backlight	LED Technology	LED Technology

Technical Data		
Variant	**ET-638-DVI3-1LX**	**MT-698-DVI3-1LX**
Mechanical Data		
Material front	Seawater resistant and coated aluminium, hardened glass	Seawater resistant and coated aluminium, hardened glass
Material back	Seawater-resistant powder coated aluminum	Seawater-resistant powder coated aluminum
Ingress protection	IP66	IP66
IP enclosure front	IP66	IP66
IP enclosure back	IP66	IP66
Mounting / Installation		
Mounting option	Yoke and wall-mounting, handle and feet, sun protection roof, panel mount (with xx8 Mounting-Kit)	Yoke and wall-mounting, handle and feet, sun protection roof, panel mount (with xx8 Mounting-Kit)
Enclosure design	VESA 200 Standard, VESA 200 Top Connect	VESA 200 Standard, VESA 200 Top Connect
Components		
Keyboard	optional, attached keyboard and pointing device (trackball, joystick or touchpad (Ex ia))	optional, attached keyboard and pointing device (trackball, joystick or tpuchpad (Ex ia))