

# ET-677 – 24" (1920 x 1080 Full HD)

NO. DS200640160103 | EN  
2014 | V 01.02.00



## ET-677 – 24" (1920 x 1080 Full HD)

### Highlights

- Digital image transfer (best image quality without time-consuming adjustments)
- Driverless data transfer (plug & play)
- State-of-the-art, energy-saving LED backlighting technology, with optional touch screen
- Rugged design, IP66 / IP65 (front side / back side)
- Without additional enclosure suitable for use in hazardous areas
- Many enclosure and mounting options

### Explosion Protection



**Explosion Protection Examination Certificate**  
BVS 11 ATEX E102 X  
BVS 11.0075X

**Explosion Protection Identification**  
ATEX directive 94/9/EG  
ET-xx7

I 2 (1) G Ex e q [ia op is Ga] IIC T4 Gb  
II 2 (1) D Ex tb IIIC [ia op is Da] IP65 T110°C Db

**IECEX**  
ET-xx7  
Ex e q [ia op is Ga] IIC T4 Gb  
Ex tb IIIC [ia op is Da] IP65 T110°C Db

### Ingress protection

Front side IP66, back side IP65

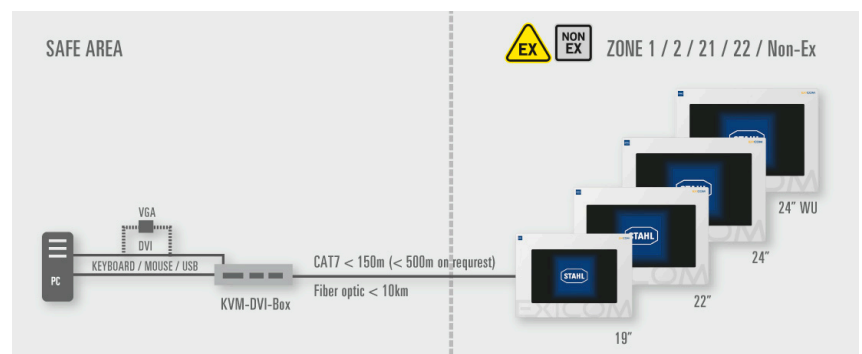
### Description

With the ET-677 and its 24" screen in Full HD resolution, we bring the widescreen technology to on-site operation. Modern digital data transfer technology, and the high-quality LED-backlit monitor add to the ET-677's outstanding qualities – suitable for applications in hazardous areas, Zone 1, 2, 21 and 22.

The high bright 24" monitor displays perfect process images point-to-point from the PC, in 1680 x 1050 Full HD resolution and 16:10 aspect ratio – and is currently the trend-setting screen size in the process industry. Designed as a control panel module, the monitor can easily be mounted into stainless steel enclosures or walls; alternatively, it can be rear-mounted without front plate.

The standard ET-677 version comes without touch screen, but is also available with intuitive glass or foil touch screen. All displays are lead-, cadmium-, and mercury-free – we take GREEN TECHNOLOGY seriously. For keyboard operation, a plastic-coated Windows keyboard with integrated pointing device is available, e.g. trackball, joystick, touch pad or mouse, which can be operated with one or two hands.

### Operating Principle



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## Technical Data

Mounting design	Front panel mounting
Display	61 cm (24") TFT color display 16.7 million colors Full HD 1920 x 1080 Aspect ratio 16:9 Brightness 300 cd/m <sup>2</sup> Contrast 1000:1 5 wire resistive touch screen optional
Backlighting	LED technology Service life 50,000 h at +20 °C
Display function keys	-
External keyboard	Ex ia 107 keys, incl. trackball / joystick / mouse / touch pad
Data transfer / cable length	KVM box: <b>DVI 2</b> (up to 1680 x 1050) Copper: up to 500 m (1640 ft) KVM box: <b>DVI 3</b> (up to 1920 x 1200) Copper: up to 150 m (492 ft) LWL: Multi mode up to 500 m (1640 ft) LWL: Single mode up to 10,000 m (33,000 ft)
Interfaces	1 x Ethernet 10/100BaseTx Ex e or LWL 100BaseFx, 100 Mbit Ex op is 2 x USB Ex ia 1 x USB Ex e 2 x USB Ex ia (keyboard, pointing device) 1 x RS-232 / RS-422 / RS-485 Ex e  Optional interfaces 1 x Reader box for card readers / barcode scanners 1 x FBAS Ex e (video) 1 x Audio line out Ex e WLAN via USB Ex e
Dimensions (W x H x D)	660 x 475 x 110 mm (23.62 x 18.7 x 4.33")
Wall section	615 x 435 (+/- 0.5) mm (24.21 x 17.13 (+/- 0.02)")
Mounting position	horizontal / vertical
Weight	30 kg (66 lbs)
Power supply	24 VDC (max. = 3 A) 100 - 240 VAC (max. = 1 A)
Permissible ambient temperature ranges	Operation -20 °C up to +60 °C Operation with heater * -30 °C up to +50 °C (option) Storage -30 °C up to +70 °C * The heater has to be designed to ensure that the temperature inside the enclosure of the operating unit does not fall below -20 °C (-30 °C only at the front side)
Heat dissipation	approx. 40 % through front side, approx. 60 % through back side
Relative humidity	10 up to 90 % at +40 °C, non condensing
Material front side	Aluminum front plate, glass, optional glass touch screen or polyester touch screen
Material back side	Galvanized sheet steel
Ingress protection	Front side IP66, back side IP65