

# ET-488 24"WU Panel PC (1920 x 1200)

NO. DS200640140110 | EN  
2015 | V 01.00.01



## ET-488 – 24"WU (1920 x 1200)



R. STAHL's brand new, innovative 4x8 Panel PC SERIES has been designed specifically for the oil and gas industry. Suitable for use in Zone 1 and Zone 21 hazardous areas, these units are ideal for a wide range of applications on both onshore and offshore drilling rigs, e.g. for mud logging, MWD / LWD, rig instrumentation, well stimulation, etc.

The powerful Intel Core i7 processor, the advanced sunlight-readable display with multi-touch technology, and a wide variety of functions make this system a highly innovative human-machine interface.

The 4x8 Panel PC SERIES features the latest trends in networking technology, e.g. dual Ethernet ports, or safe, 802.11a/b/g/n, IS WLAN module. The built-in Bluetooth and camera enable VoIP video conferencing. The Panel PC also comes with RFID reader interface for fast user authentication.

This new series is rugged and IP66-rated, provides outstanding resistance to shock and vibration, and is capable of operating at temperatures ranging from -10 °C to +50 °C [14 °F to 122 °F].

### Explosion protection Certificate / Marking



#### ATEX directive 94/9/EC

BVS 14 ATEX E 134 X  
II 2 (1) G Ex e q [ia op is Ga] IIC T4 Gb  
II 2 (1) D Ex tb [ia op is Da] IIIC T115°C Db

#### IECEX

BVS 14.0116X  
Ex e q [ia op is Ga] IIC T4 Gb  
Ex tb [ia op is Da] IIIC T115°C Db

#### Additional certificates:

Russia (TR), Canada (CSA),  
Korea (KCC), Brazil (INMETRO)  
(pending)



### Hardware

- Brilliant 24"WU LED colour display with 1920 x 1200 pixels (format 16:10)
- Capacitive multi-touch screen with hardened glass front
- Robust, seawater-proof metal enclosure powder coated with IP66
- Temperature range from -10 °C to +50 °C [14 °F to 122 °F]
- Powerful processor Intel Core i7® or AMD GX-Series

### Firmware / Software

- Operating system
  - Windows Embedded Standard® 7
  - Windows® 7 Ultimate
  - Driver support for other operating systems (on request)

### Ambient temperatures

Operation -10 °C to +50 °C [14 °F to 122 °F]  
Storage -20 °C to +60 °C [-4 °F to 140 °F]

Front and back side IP66

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Technical data		
Design	VESA, Yoke or pipe mount, sun shade and mobile options	
Display	61 cm (24"WU) TFT colour display 16.777.216 colours WUXGA 1920 x 1200 Aspect ratio 16:10	Brightness display 250 cd/m <sup>2</sup> Contrast 1000:1 Capacitive multi-touch as option behind hardened glass
Backlight	Long life LED technology Service life 70,000 h at +25 °C [77 °F]	
Function keys at display	8 function keys Capacitive touch keys	
LED's	Blue = heating on Yellow = device is energised / power supply is ok Green = on	
External keyboard	Yes (optional), attached keyboard and pointing device (trackball or joystick) (Ex ia) or desktop keyboard 105 keys (Ex ia) and optical desktop mouse (Ex ia)	
Processor / memory	AMD GX-Series 1.6 GHz 2 cores 4 GB RAM, 60 GB SSD	Intel® Core™ i7-3517UE 1.7 GHz 2 cores, 4 threads, 3rd generation Ivy Bridge, 17W TDP 4 GB RAM, 80 GB SSD
Operating system	Windows Embedded Compact 7, Windows 7 Ultimate	
Languages	Multilanguage operating system: en, de, fr, es, it, br, ru, kr	
Interfaces	<b>Standard interfaces</b> 2 x Ethernet 10/100/1000Base-TX (Ex e) or FO 100Base-FX, 100 Mbit (Ex op is), SC connectors 1 x USB (Ex e) 3 x USB (Ex ia) 1 x Serial interface RS-232 / RS-422 / RS-485 (Ex e) 1 x Audio line out (Ex e) (only AMD processor) DVI out (Ex e) Integrated front camera 5 Megapixel Reader / barcode reader interface (Ex i)	<b>Optional interfaces</b> Bluetooth WIFI 2.4 GHz (Ex i) WIFI 5 GHz (Ex i)
Dimensions (W x H x D)	594 mm x 490 mm x 141 mm [1.95 ft. x 1.61 ft. x 0.46 ft.]	
Cut-out	No panel mount	
Weight	35 kg [77.16 lbs]	
Power supply	20...30 VDC 100...240 VAC (Um 250 VAC), 50 ... 60 Hz	
Current	8 A max. at 24 V DC 2 A max. at 100 - 240 V AC	
Power	typ. 100 W / max. 150 W (typ. 340 BTU / max. 510 BTU)	
Ambient temperatures	Operation: -10 °C to +50 °C [ 14 °F to 122 °F] Storage: -20 °C to +60 °C [ -4 °F to 140 °F]	
Heat dissipation	Via heat pipes and cooling fins	
Relative humidity	>95 % at +65 °C [149 °F] according IEC 60068-2-30	
Vibration resistance	According EN 60068-2-6 and DNV marine certification vibration class A	
Material front	Seawater resistant and coated aluminium, hardened glass	
Material back	Seawater resistant and coated aluminium	
Type of protection	Full protected IP66	



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Description	Code	ET- 4 88 - 0 0 0 0 0 0 - B 3 1 0 0 0 0 0 0 0 0
<b>Enclosure type</b>		
Rugged panel design (RP)	B	
<b>Material</b>		
Seawater-proof aluminium (powder-coated)	3	
<b>Mounting option</b>		
VESA 200	0	
VESA 200, handle and feet (material SS316L)	4	
<b>Outdoor design</b>		
-10 °C	1	
<b>Keyboard layout (see accessories)</b>	0	
<b>Integrated pointing device (see accessories)</b>	0	
<b>Separated pointing device (see accessories)</b>	0	
<b>Separated reader device (see accessories)</b>	0	
<b>Emergency stop button (see accessories)</b>	0	
<b>Separate power supply: none</b>	0	
<b>Further options 1: none</b>	0	
<b>Further options 2: none</b>	0	

## Accessories

<b>Media convertor/ Single Port Fibre Switch</b> 9721/13-11-14	1 port 10/100Base-TX RJ45 and 1 port 100Base-FX, fibre optic multi-mode 50 (62,5) / 125 µm (SC)
<b>Mifare cards</b> Mifare-1K-S50-ISO14443-S-10 Mifare-1K-S50-ISO14443-S-100	10 Mifare Proximity access cards 1K S50 - ISO 14443, Front Packaging: Vinyl glossy white 100 Mifare cards, as before