

Manufacturer: **Jakob Hatteland Display AS**
 Product: **19.0 inch Multi Display EX (MEX)**
 Type: **JH 19T02 MEX**



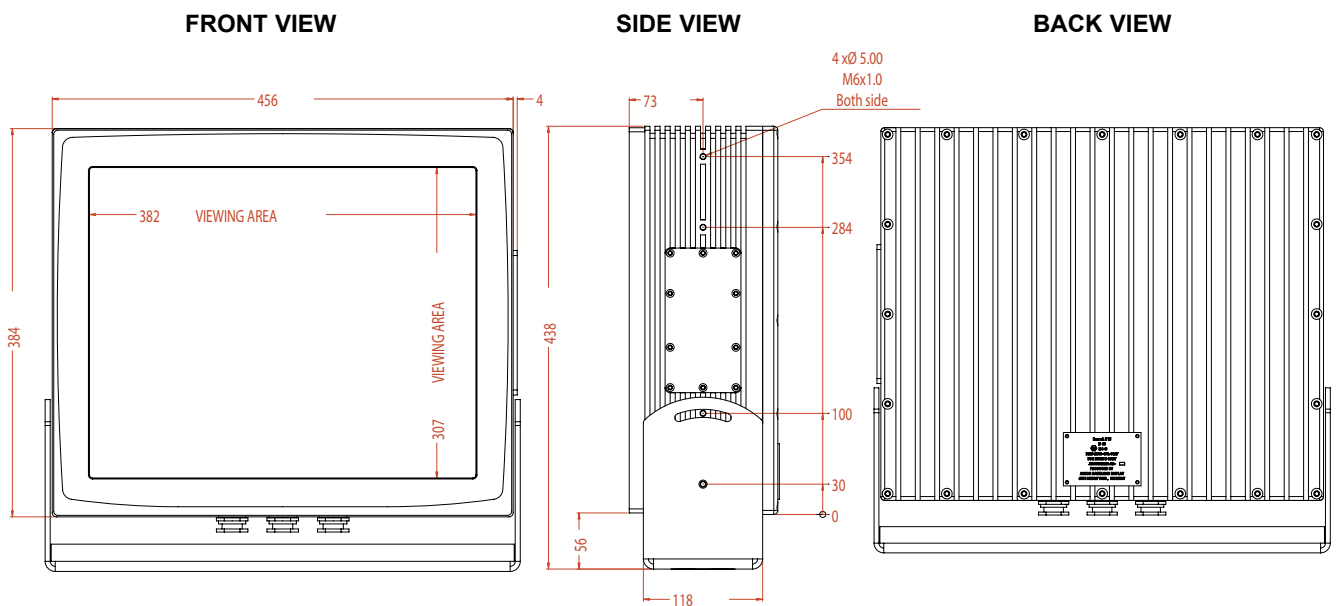
Last Revised: **13 Mar 2006**
 Revision#: **6**

19.0 inch Multi Display EX (MEX)

Features:

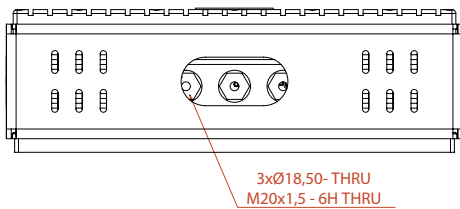
The EXn display described in this Data Sheet is an industrialized version of a high quality SHARP TFT based display with MVA Premium™ Technology. It is intended for use in potentially explosive atmospheres. Directive 94/9/EC, Explosion protection EEx nA II T5.

The display allows you to display professional applications with clarity and enhanced color and image quality. The display have DVI-D Input, RGB Input, Video Input (Composite/SVHS) and PiP (Picture in Picture) functions.

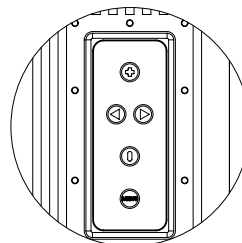


Due to dimensions without decimals, the tolerance on drawings is +/- 1mm (For accurate measurements, measure in AutoCAD)

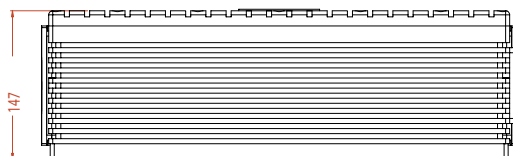
BOTTOM VIEW



OSM Controller



TOP VIEW



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Note: All specifications are subject to change without prior notice!

TECHNICAL DESCRIPTION

TFT Technology:

- 19.0 inch viewable image size
- Active Matrix, Thin Film Transistor (TFT)
- MVA Premium™ Technology

TFT Characteristics:

- Pixel Number : 1280 x 1024
- Pixel Pitch (RGB) : 0.294 (H) x 0.294 (V) mm
- Response Time : 15 ms (typical), "black" to "white"
- Contrast Ratio : 700:1 (typical)
- Light Intensity : 300 cd/m2 (typical)
- Viewable Angle : +/- 85 deg. (typical) (Up/Down/Left/Right)
- Active Display Area : 376.32 (H) x 301.056 (V) mm
- Max Colors : 16.7 millions (depending on graphics card)

Synchronisation:

Sync Signal:

- Digital separate synchronisation
- Composite synchronisation
- Synchronisation on green.
- Auto detects VGA -> SXGA, interlaced and non interlaced
- Video Signal : Analog RGB 0,7Vp-p
: Input Impedance 75 Ohm

Synchronisation Range:

- Horizontal : 31,5 kHz to 91,1 kHz
- Vertical : 60 Hz * to 85 Hz

* Recommended for optimum picture quality

Supported Signal Inputs:

Resolutions:

- VGA : 640 x 480 (including 640 x 350)
- SVGA : 800 x 600 (including 720 x 400)
- XGA : 1024 x 768
- SXGA : 1280 x 1024 *

Video Signals:

- Interlaced NTSC and PAL/SECAM video
- Composite video
- S-Video

* Recommended for optimum picture quality

Power Specifications:

Power Supply Options:

- 24 VDC : Model JH 19T02 MEX-A2

Power Consumption:

- Operating : 100 W (max)

MECHANICAL DESCRIPTION

Physical Dimensions:

- 456 (W), 384 (H), 147 (D) mm
- Weight: 24 kg (w/bracket)

Input Signal Terminal:

- DVI-D (PC) signal : DVI-D Input 24pin Connector
- RGB (PC) signal : 15pin mini D-SUB (female - Input)
- Composite Video : RCA Phono plug
- S-Video signal : S-Video (SVHS) plug
- DC Power signal : Screw terminal Model JH 19T02 MEX-A2

User Controls:

On side bezel behind hatch:

- +/- buttons (Hotkey set 1)
- Up/Down buttons (Hotkey set 2)
- On Screen Display control (OSD/OSM)

Environmental Considerations:

- Operating : Temperature -20 deg. C to +40 deg. C
- Storage : Temperature -20 deg. C to +55 deg. C

Apparatus Grouping EEx nA II T5

Safety Considerations:

Even although the test conditions for bridge units provide for a maximum operating temperature of 40°C, continuous operation of all electronic components should, if possible, take place at ambient temperatures of only 25°C. This is a necessary prerequisite for long life and low service costs.

Compass Safe Distance: JH 19T02 MEX

Standard: N/A

Steering: N/A

APPROVALS & CERTIFICATES

This product have been tested / type approved by the following classification societies:

- ATEX 94/9/EC : EN 50021
- EMC Directive 89/336/EC : EN 55022 Class A - Emission
- EMC Directive 89/336/EC : EN 55024 - Immunity
- EN60529 : IP 66
- DNV Certificate : DNV-2005-OSL-ATEX-0016

