



### Operator's Display:

- Physical size: 415x290x110mm (16.3x11.4x4.3"), weight approx. 8 kg (17.5 lbs)
- Mounting bracket: VESA 200x200, allowing best possible flexibility, pan and tilt adjustment
- Display size and specification: 15", portrait format using color TFT-LCD backlight technology, 1280x800 pixels, 16.7 million colors. Active area of display, 207x331 mm (8.1x13"), WxH
- Extreme brightness: 1000 cd/m<sup>2</sup>, reducing glare and reflection
- Touch screen : Analog resistive, touch screen (can use gloves) and > 5 million finger touch operations
- Data transfer: 1xUSB for data transfer (down loading of records)
- Operating temperature: -20 to +50°C (-4 to +122°F)
- Shock & Vibration: 40G, half sine
- Certification, 3rd party: Ingress protection IP66 Atex and IECEx zone 2 certified, II 3G Ex nA nC IIC T4 Gc

### Computer Cabinet:

- Physical size: 380x380x150mm, (15x15x6") WxHxD, weight approx. 12 kg (26.5 lbs)
- Standard model, sheet metal, epoxy coated - stainless steel optional
- Mounting bracket: External wall mounting bracket included
- Operating temperature: -20 to +50°C (-4 to +122°F)

## Mipeg X

Mipeg X is a modular, end user configurable system. The main, standard building blocks are listed below with the key technical specification.

The system is tested to comply with the EN 61000-6-3 (2007) + A1 (2011) EMC Emission standard and EN 61000-6-2 (2005) EMC Immunity standard to verify compliance.

### Key features

- Flexible
- Expandable
- User Configurable
- Compatible with existing load sensors
- Color graphical touch screen monitor

- Certification, 3rd party: Ingress protection IP66 (NEMA 4), Atex and IECEx zone 2 certified, II 3G Ex nA nC IIC T4 Gc
- Power Supply: Nominal 24 Vdc power (18-36 Vdc), 2.1 A Solar Panel/Battery operation, 12 Vdc and 110-230 Vac, 50-60 Hz available

### Crane/Application Interface:

- Switch inputs: 16 limit switches/change-over digital switches, ie Hoist limits, Rigging switches, Personnel/Man Riding selection switches

- Analog inputs, 8 channels:
- Load sensor input: 4 frequency bases
- CANbus: For 4 absolute encoders
- Range: 0-10 Vdc signals, programmable to project specific requirements
- 4-20 mA (0-20 mA) signals, programmable to project specific requirements
- Outputs: 16 programmable outputs to control solenoids, alarms and other 3rd party equipment and logic such as PLCs

- Analog outputs, 6 channels:
- Range: 0-10 Vdc signals, programmable to project specific requirements
- 4-20 mA (0-20 mA) signals, programmable to project specific requirements
- Communication: RS485 Modbus to main display
- 2x RS232 for test equipment and communication to PLC logic

Data transfer: 1xUSB for software upgrade  
(up/down loading of configuration)

Certification,  
3rd party: Ingress protection IP66  
Safe area or zone 2,  
Atex and IECEx certified ,  
II 3G Ex nA IIC T4

#### Radius/Boom Angle Sensor:

Physical size: 133x133x120mm (5.2x5.2x4.7"),  
weight approx. 8 kg (17.5 lbs)

Mounting bracket: Vertically mounted on the side of the  
boom using two bolts

Operating  
temperature: -40 to +70°C (-40 to +158°F)

Accuracy and  
repeatability: Better than 0.3% of reading ie  
typical max error on a 45m boom, 0.2m

Measuring range: Typically 3-8 Vdc

Certification,  
3rd party: Ingress protection IP66 Atex and  
IECEx zone 1 certified, II 2G Ex d IIB T6 Gb

#### Fly/Aux/Main Load Sensors:

Physical size: Design to suit its application e.g.:

- to suit max design line tension,  
tension link type sensor
- to suit max deflection loading,  
engineered sheave sensor
- to suit max sheave shaft force,  
load pin sensor

Operating  
temperature: -20 to +80°C (-4 to +176°F)

Measuring range: typically 350-450 Hz, special frequency  
based signal, with signals designed  
to suit the load range of the sensor

Certification,  
3rd party: Ingress protection IP66  
Atex and IECEx zone 1 certified,  
II 2G Ex d IIB T6 Gb

#### Crane Slew & Hook Position and direction sensor:

Physical size: Ø78 (3.07")x95mm (3.7"),  
weight approx. 3 kg (6.6 lbs) -  
stainless steel version

Mounting bracket: 10 mm ( 0.4" ) shaft coupling, support  
mounting application dependent

Operating  
temperature: -40 to +70°C (-40 to +158°F)

Accuracy and  
repeatability: better than 0,025% per encoder turn

Certification,  
3rd party: Ingress protection IP66 Atex and  
IECEx zone 1 certified, G Ex db IIC T5 Gb

CANbus absolute encoder design with 4096 measuring  
points per shaft revolution, 4096 unique continuous  
revolutions, no end stop logic or physical

**Optional:** Potential free relay contact

**Specifications subject to change  
without prior notice**



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