



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

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/m², 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: -30 to +70°C (-20 to +158°F)
- Shock & Vibration: 40G, half sine
- Certification, 3rd party: Ingress protection IP66 Atex and IECEx zone 2 certified, Ex nA nC IIC T4 Gc

*Note 1

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)
- Certification, 3rd party: Ingress protection IP66 (NEMA 4), Atex and IECEx zone 2 certified, Ex nA nC ec (ia Ga) IIC T4 Gc
- Note 1*
- 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



a xylem brand

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, Ex db IIC T6 Gb

*Note 1

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

*Note 1

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: -20 to +70°C (-4 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, Ex d IIC T5 Gb

*Note 1

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

*Note 1: Certified conditions are listed in the certificate and may alter from max operational conditions.

Specifications subject to change without prior notice



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