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 (downloading of records)
- Operating temperature: -20 to +50°C (-4 to +122°F)
- Shock & Vibration: 40G, half sine

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
- 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
- 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

**Certificate, 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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