

## MUI v2 Medium User Interface Version 2

The Medium User Interface (MUI) v.2 display is a remote network display unit for the FX16 Master Controller, FX15/10 series. It's designed for the end user, the operator or the maintenance people who needs a straightforward way to monitor and adjust controller points. In fact its application allows Monitoring, Alarm signaling and Commissioning of the connected FX device.

Information are presented in a textual format on 4x20 LCD backlit display. The display can be used as a portable, hand-held unit, or permanently mounted in a panel or on the wall.

MUI v.2 device is a fully configurable user interface. The display application is built, at design time, using the FX-Builder Tool package.

This Medium User Interface v.2 unit represents the right compromise between dimension, visualisation capabilities and cost effectiveness.



**MUI v.2 Display**

<b>Features and Benefits</b>	
<input type="checkbox"/> <b>Menu Operations</b>	Provide easy / intuitive operation – select from a list of tags to monitor and control the system
<input type="checkbox"/> <b>Event Summary</b>	Provide a quick view of currently active or non-active but not acknowledged alarm conditions (up to 20 simultaneous events, depending on the controller used)
<input type="checkbox"/> <b>Event History</b>	Provide a quick view of the latest, active or no more active, triggered events (up to 10)
<input type="checkbox"/> <b>Trend Logging</b>	Allows tracing the Trend of up to 16 points, for monitoring purpose. (Available only for FX16 Master Controller)
<input type="checkbox"/> <b>Password Access</b>	Provides protection against unauthorised use
<input type="checkbox"/> <b>Software Customisation</b>	Possibility to fully customise and arrange the shown information through the FX-Builder, part of the FX-Tools II software package
<input type="checkbox"/> <b>Universal power supply</b>	Easy mounting: directly powered from the controller (up to 3 mt), or universal 12-24 VAC, 9-48Vdc external power supply (up to 1 km)
<input type="checkbox"/> <b>Two mounting options</b>	To suit installation needs: panel mount, not isolated, up to 3 mt, or panel mount, isolated, up to 1 km.

## **Product Overview**

The MUI v.2 display can be connected to the FX16 Master Controller and FX15/10 through its dedicated Display Bus. The Medium User Interface v.2 is a slave network display unit and loads its configuration directly from the FX controller it is connected to allowing easy access to all of the system functions available at the user's password level.

The display application is built, at design time, using the appropriate Plug-In, that FX-Builder Tool offers.

### **Event Notification**

As soon as an alarm condition is detected, the EVENT SUMMARY page pops up, the buzzer will be activated only for the alarms that require to be acknowledged. The alarm summary page provides an overview of all points currently in alarm (20 max).

### **Password Protection**

The MUI v.2 display has a password system, definable through the FX-Builder with three possible security levels.

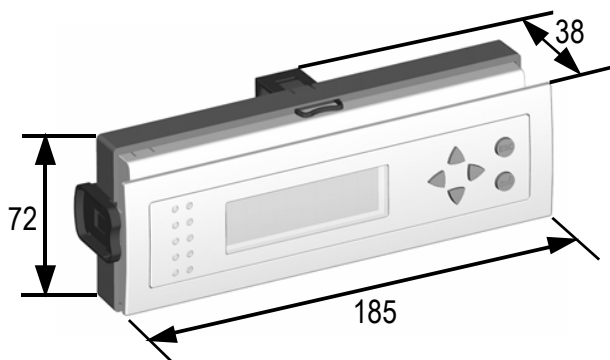
### **Programming**

The MUI v.2 display is programmed with the FX-Builder software tool, part of the standard FX-Tools II package. The user can select and name points from the application program using the predefined point description, or modify them as you see fit, in terms familiar to the end user. The user can define the functions associated to each button and LED. The display configuration program, downloaded to the controller at the same time of the control program, is automatically uploaded to the MUI V.2 as soon as it is connected to the target controller.

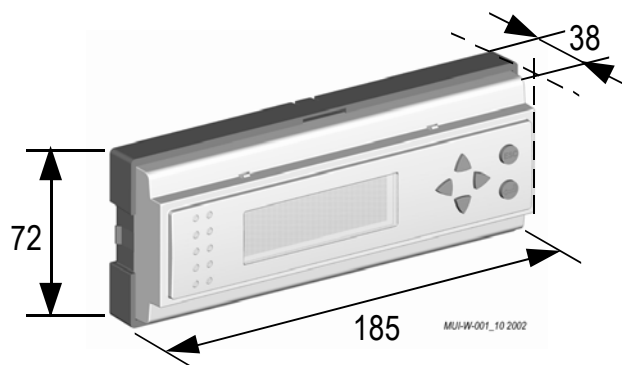
### **Connections**

The MUI v.2 display can be connected to the FX10 "Standard" and to the FX10 "Advanced" by means of the DLI card or directly to the FX15 Universal , FX15 Classic and FX16 Master Controller on the local Extension / Display Bus.

## Dimensions (mm)



**Panel mount model**



**Wall mount model**

## Ordering Codes

Item Code	Description
<b>LP-DIS60P10-0C</b>	Remote Medium User Interface v.2, (4 x20) LCD backlit display, <b>panel mount</b> version.
<b>LP-DIS60P11-0C</b>	Remote Medium User Interface v.2, (4 x20) LCD backlit display, <b>wall mount</b> isolated version.
<b>LP-KIT007-000C</b>	Link cable for the connection of the FX16 "Master Controller" to the MUI / LUI display - 3 mt.
<b>LP-KIT000-000C</b>	Display Link Interface for FX10 (DLI card)

## Specifications and Technical Data

<b>Product</b>	<b>MUI v.2 – Medium User Interface version 2</b>
<b>Power Requirements</b>	Directly powered from FX10, FX15, FX16 for panel mount version or Universal power supply: 9 to 48 VDC, 12 to 24 VAC
<b>Power Consumption</b>	2 W at 9 VDC
<b>Ambient Operating Conditions</b>	-20°C to +60°C 10 to 90%; RH (non-condensing)
<b>Ambient Storage Conditions</b>	-20°C to +70°C 10 to 90%; RH (non-condensing)
<b>Display and Keypad</b>	LCD 4 x 20 alphanumerical, backlit Keypad with 6 buttons and 10 LEDs
<b>Shipping Weight</b>	280 gr (Wall mount models); 300 gr (Panel mount models)
<b>Housing Protection</b>	IP30 for hand-held and wall mounting applications IP54 for panel mounting applications
<b>Housing Material</b>	Polycarbonate + ABS (GE CYCOLOY), self-extinguishing UL94V-0
<b>Dimensions (H x W x D)</b>	72 x 185 x 38 mm
<b>CE Compliance</b>	89/336 EEC directive: EN 61000-6-1 (EN 50082-1) 73/23 EEC directive: EN 60730 for applicable points (IP) UL873

*The performance specifications are nominal and conform to acceptable industry standards. For application at conditions beyond these specifications, consult the local Johnson Controls office. Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products*



### Johnson Controls International, Inc.

Headquarters: Milwaukee, Wisconsin, USA  
 European Customer Service Center: Westendhof 3, D-45143 Essen, Germany  
 European Factories: Essen (Germany), Leeuwarden (The Netherlands) and Lomagna (Italy)  
 Branch Offices: Principal European Cities.