D-MAX Series
Web Guiding Systems

A Maxcess International Company

D-MAX series web guiding systems are modular designs that can be pre-wired and pre-integrated for fast, easy installation and setup of the smallest to the largest electromechanical guides. Whether integrated into the guide structure or remote mounted, the unique low-profile D-MAX Controller provides high-speed networking and the highest level of guiding accuracy available. The D-MAX Operator Interface displays helpful graphics and speaks your language. Together, the D-MAX Controller and Operator Interface work with the guide structure and chosen sensor to make a complete web guiding system ready for out-of-the-box installation, or as feature-rich stand-alone components. Optional open architecture configurations are available, providing the highest level of customization for unique and/or challenging applications.

General Specifications

D-MAX Controller

Weight: 2.2 lb (1.0 kg)
Mounting Options: Integrated or Remote Mount
Operating Temperature: 0˚ C to 60˚ C
Power Consumption:
Control: 50W max input, Drive: 200W max input at +24 VDC or 400W max input at +48 VDC
Drives per controller: 1 (single) or 2 (dual)
Max Motor Outputs: 4 amps per drive
Sensor Inputs: 4 total
Communication Type:
Ethernet IP & Ethernet Modbus TCP
IP Protection: IP-54
Parallel Port Connectivity: Discrete 6 Inputs, 2 Outputs, Line Speed and Remote Guide Point Controller

D-MAX Operator Interface

Weight: 1.92 lb (0.87 kg)
Mounting Options: Bezel or Remote Mount (requires bracket)
Operating Temperature: 0˚ to 60˚ C
Display: 320 x 240 pixels, QVGA Graphic LCD
Viewing Area: 4.8" (122 mm) x 3.6" (92 mm)
Display Resolution: 0.36 mm dot pitch
Communication Type:
Ethernet IP & Ethernet Modbus TCP
Display Feedback: Text, Guiding Nomenclature & Web Guide Graphics
IP Protection: IP-54 (Bezel or Enclosure), IP-40 (Wall Mount)

KEY FEATURES

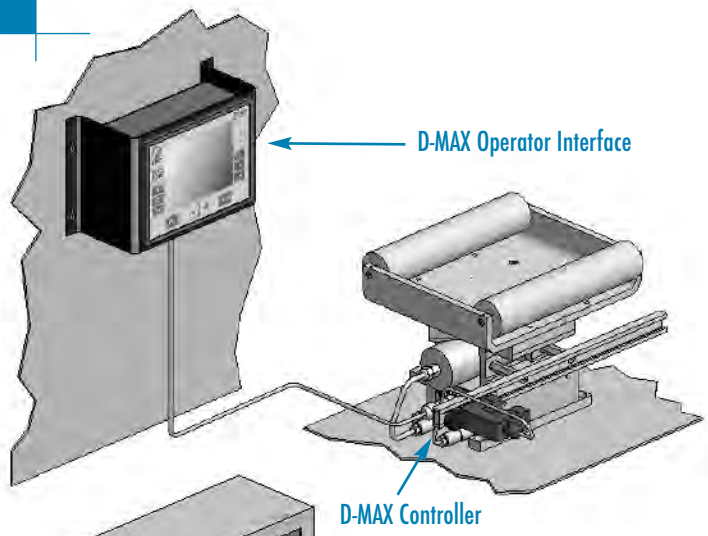
Key Features:

- Complete, pre-wired and pre-engineered solution
- D-MAX Controller can be remote mounted
- Ability to display graphics, symbols or plain text
- Accessible from any PLC that communicates over ControlNet, DeviceNet, Ethernet Modbus TCP/IP, EtherNet/IP, Profibus, Profinet, CC Link, and CANopen
- D-MAX Controller available as single or dual-drive
- Built-in Ethernet port
- Backwards compatible with other Fife web guide controllers
- Durable construction for low maintenance and long-lasting reliability
- UL, cUL, CE certification pending

System Configurations

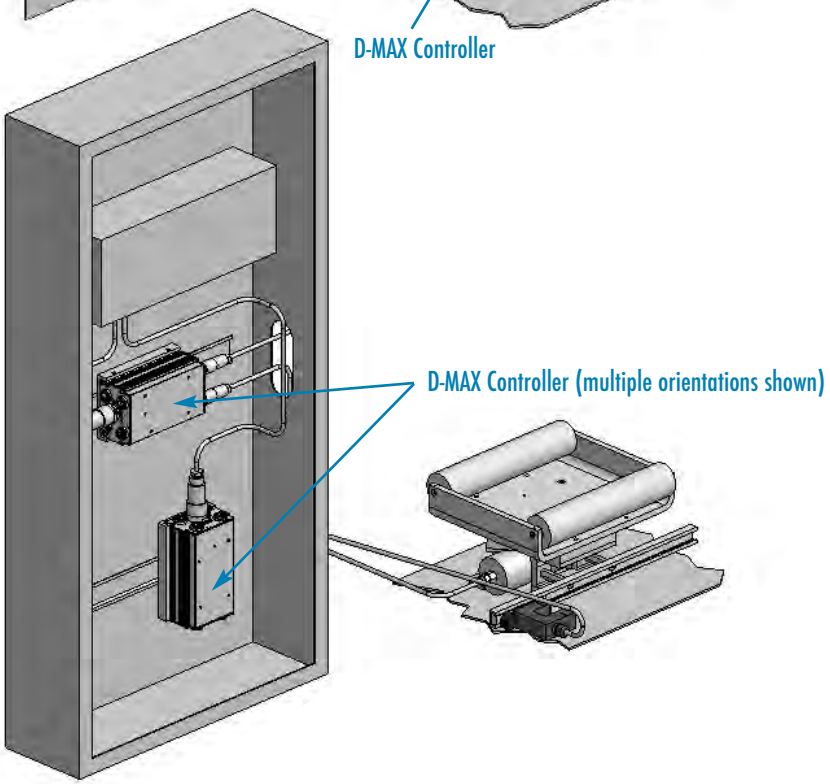
PRE-WIRED, INTEGRATED GUIDING SYSTEM

- Complete systems can be ordered from the factory with all of the guiding components completely assembled and pre-wired, saving time and money during installation
- The D-MAX controller slides out of the guide structure, providing easy access for troubleshooting and replacement if necessary
- The D-MAX controller can easily be integrated into all guide types (displacement, steering, unwind & rewind)



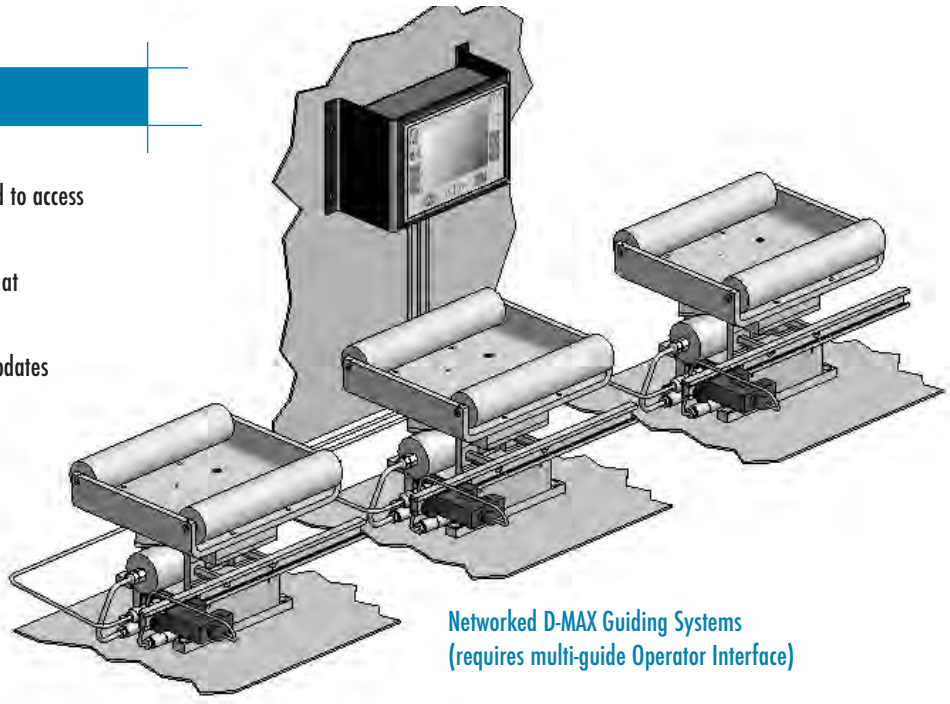
REMOTE MOUNTED CONTROLLER

- Components supplied loose for customer mounting in controls cabinet or on the machine frame
- Flexibility to mount the controller and operator interface remotely, depending upon your application
- Configurable in single or dual-drive - utilizing the dual version allows two guide types to be controlled from one remote mounted controller
- Both the controller and operator interface have remote mounting brackets that are designed for easy and quick installation



Networked Guiding Systems

- Optional multi-guide D-MAX Operator Interface (OI-N) can be used to access up to 5 D-MAX Controllers (single or dual-drive)
- Ethernet Communications: Ethernet IP & Ethernet Modbus TCP/IP at 100 Mbps base communication
- Network Communications: up to 32 devices with real-time data updates
- Industrial Protocol Connectivity: AnyBus CompactCom
- Industrial Protocol Gateways: ControlNet, DeviceNet, Ethernet Modbus TCP/IP, EtherNet/IP, Profibus, Profinet, CC Link and CANopen
- ActiveX component available for access via an Industrial PC



Networked D-MAX Guiding Systems
(requires multi-guide Operator Interface)

D-MAX Operator Interface

BASIC OPERATOR INTERFACE (OI-B)

- Communicates directly to a single or dual-drive D-MAX controller
- Power over the Ethernet connection (POE) to the D-MAX controller with proper grounding
- Also available with split input power (+24 VDC or +48 VDC)
- 320 x 240 pixel QVGA Graphic LCD with 0.36 mm dot pitch that can be bezel mounted with an IP-54 rating or remotely mounted with an IP-40 rating
- Displays graphics, symbols or plain text (multiple languages)
- Keypad layout consists of 6 smart function keys, 4 arrow keys for menu navigation, page key, enter key and escape key

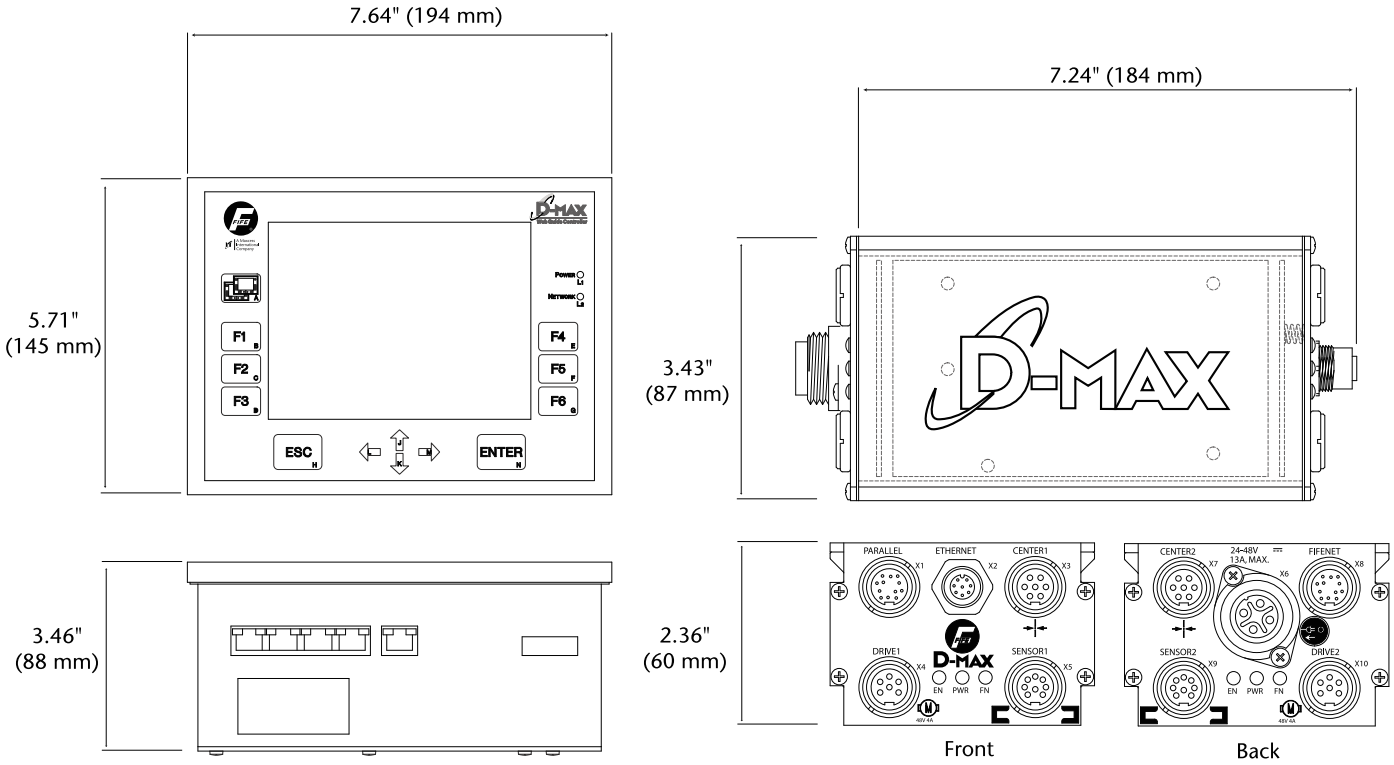
MULTI-GUIDE AND/OR INDUSTRIAL PROTOCOL OPERATOR INTERFACE (OI-N)

- Configured with a 5-port Ethernet switch for guide networking and/or communication uplink to additional OI-N' s
- Industry standard network card for communication with industrial protocols; ControlNet, DeviceNet, Ethernet Modbus TCP/IP, EtherNet/IP, Profibus, Profinet, CC Link, and CANopen.
- CompactCom port for communication with Programmable Logic Controllers (PLC)
- OI-N has the same QVGA Graphic LCD, IP ratings and keypad lay out as the Basic Operator Interface (OI-B)

D-MAX Controller

- Improved dynamic response over the legacy Fife controllers, which were already the industry standard for web guiding
- Modular design allows optional dual-drive configuration for controlling sensor position or another guide
- Dual-drive configuration is backwards compatible to other Fife web guide controllers
- Powered by 24 VDC for all new systems and 48 VDC for legacy systems, dating back over 20 years
- Integrated IEC 61131-3 programming is accessed by industry standard workbench software; provides programming flexibility to customize the D-MAX similar to a softlogic controller for unique and/or challenging applications
- Built-in Ethernet IP & Ethernet Modbus TCP/IP base communication with a proprietary deterministic layer for guaranteed mode changes and general control functions
- Accessible from any PLC that communicates over ControlNet, DeviceNet, Ethernet Modbus TCP/IP, EtherNet/IP, Profibus, Profinet, CC Link, and CANopen
- IP-54 protection classification. Pending UL, cUL, and CE certification

Dimensions and System Selection



CONTROLLER	MOUNTING TYPE		DESCRIPTION
	Integrated (I) or Remote (R)		
D-MAX 1-	I	R	Single-drive controller with Integrated pre-wired configuration or Remote Mounting
D-MAX 2-	I	R	Dual-drive controller with Integrated pre-wired configuration or Remote Mounting
INTERFACE	**MOUNTING TYPE**		**DESCRIPTION**
	Bezel (B) or Wall (W)		
OI-B-	B	W	Basic Operator Interface for single or dual-drive configuration. Bezel or Wall mount bracket with networking
OI-N-	B	W	Networking Operator Interface for single or dual-drive configuration. Bezel or Wall mount bracket complete with ethernet switch for multi-guide operation and CompactCom port for Industrial Protocol (IP) connectivity

The D-MAX Controller and Operator Interface in any of the above configurations can be incorporated into any of the Fife guiding systems (Displacement, Steering, Unwind & Rewind).

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