



In the Fife D-MAXE system the operator interface and the controller are separate modular components, making the D-MAXE easy to integrate, as pre-wired, pre-assembled solution, even in the smallest guiding systems, saving on installation and setup time.

Either integrated into the guide structure, or remotely mounted, the Fife D-MAXE provides the highest level of guiding accuracy, the most flexible customization thanks to its state-of-the-art software, high-speed networking being Ethernet based and up to three control loops, all packed into the smallest space requirements. The OI-TS Operator Interface makes the control of the guiding system easy and intuitive, thanks to the colored touch screen.

GENERAL SPECIFICATIONS

D-MAXE CONTROLLER

Weight:

D-MAXE 1, D-MAXE 2: 1 kg
D-MAXE 3: 1,2 kg

Mounting Options: integrated or wall mounted (adapter bracket)

Operating Conditions:

Temperature: 0° – 60°C,
Humidity: 10% – 95%,
non-condensing

Power Consumption:

Controller max. 130W,
Motor drive 200W, max. at
24Vdc or 400W, max. at 48Vdc

Drives per controller:

available as single-, dual- or
triple-drive version
supporting all available Fife
actuators and hydraulic valves

Sensor Inputs:

4 independent sensor channels

Built-In Networking: 2 Ethernet
at 100Mb/s for Daisy Chain

IP Protection: IP-54

Parallel Port:

featuring 6 inputs, 2 outputs,
line speed input

OI-TS OPERATOR INTERFACE

Weight: 600 g (OI-TS, without
mounting accessories)

Mounting Options:

Panel (-B) or Wall (-W) mount
(bracket required)

Dimensions:

Wall mount:
128 x 105 x 38 mm
Panel mount:
128 x 105 x 33+5 mm

Operating Conditions:

Temperature: 0° – 60°C,
Humidity: 10% – 95%,
non-condensing

Display:

TFT Touchscreen-Display,
480 x 272 Pixel

Connector:

M12 Plug 4-pin

Protection Class: IP-64

KEY FEATURES

- Compact, easy to integrate controller
- Pre-wired, pre-assembled solutions available even with the smallest guides
- Touch screen with user friendly operator interface
- Backward compatible with all existing Fife guiding systems
- D-MAXE Controller available in single-, dual-, and triple-drive configurations
- Networks (integrated): EtherNet/IP, ProfinetIO, EtherCAT, Modbus TCP, additional networks possible via the operator interface OI-N (e.g. ProfibusDP, ControlNet)
- 2 built-in Ethernet ports for direct connection of multiple processors (Daisy Chain)
- Durable construction for low maintenance and long-lasting reliability

D-MAXE CONTROLLER



- The Fife D-MAXE controller is available in single-, dual-, and triple-drive configuration.
- The versions with dual- or triple-drive configurations are suitable both for independent control loops and also for combinations of control loops with automatic sensor positioning.
- The Fife D-MAXE controller is the ideal upgrade to Fife CSP-01, DP-20, DP-30, and CDP-01 processors.
- 24 VDC power supply voltage.
- Built-in Ethernet Modbus TCP/IP base communication with a proprietary deterministic layer for guaranteed mode changes and general control functions (MaxNet).
- Industrial protection grade: IP-54
- Certification: UL, cUL und CE

OPERATOR INTERFACES

Operator Interface OI-TS

- Communicates directly to a D-MAXE controllers.
- Easy to read, backlighted TFT touchscreen, resolution 480 x 272 pixels
- Icon and text based colored graphic user interface, intuitive and easy to use
- Multiple languages available
- Compact dimensions
- Suitable for panel- or wall-mount
- Protection Class IP-64



Operator Interface OI-N with integrated switch

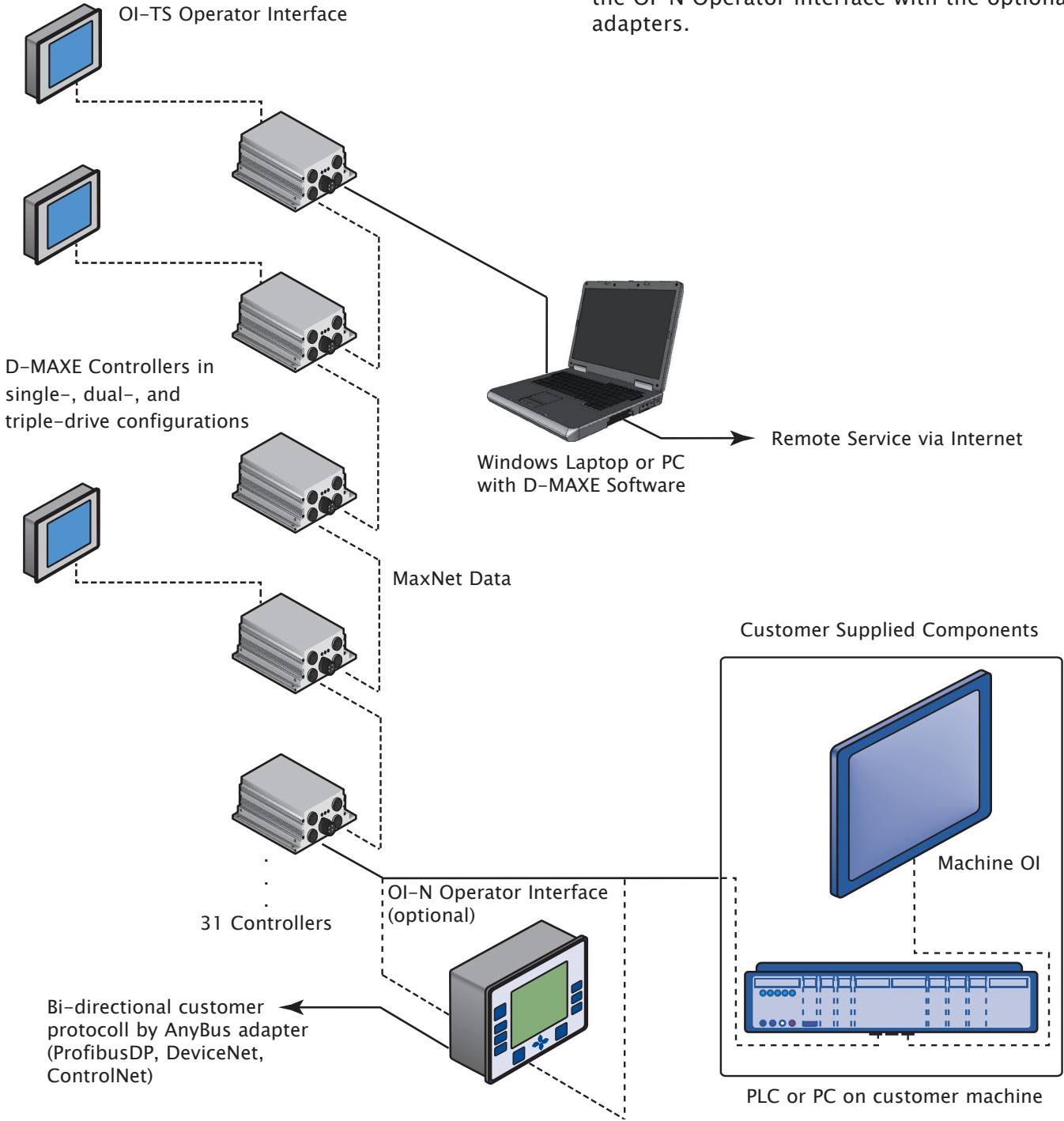
- Communicates directly to a D-MAXE controller.
- 320 x 240 pixel QVGA Graphic LCD
- Graphic operator interface, based upon function keys, symbols and plain text
- Keypad featuring 6 Smart Function keys, 4 arrow keys for menu navigation, Page key, Enter key and Escape key.
- Panel mount with an IP-54 rating or wall mount with an IP-40 rating (bracket required).
- 5 - port Ethernet switch for guide networking and /or communication uplink to further Operator Interface Panels (OI-N).
- CompactCom port for communication with Programmable Logic Controllers (require optional Field Bus Adapter): DeviceNet, Profibus und ControlNet available



D-MAXE NETWORK CAPABILITIES

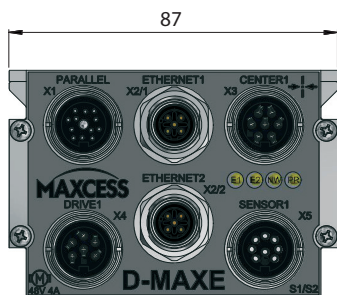
Extended networking possibilities under Ethernet

- Each D-MAXE features an integrated 2-port Ethernet switch which facilitates the following through Ethernet, daisy-chaining several D-MAXE's in series (with no additional hardware required), star configuration (using a switch or the OI-N control panel) or a combination of both.
- Easiest networking of multiple D-MAXE controllers (up to 31), with hard real time communication without additional components, thanks to the integrated Ethernet hardware.
- Virtual-OI Windows Software available for full interfacing of the D-MAXE Network with machine PCs and Laptops for control and service purposes.
- Easiest interfacing to any machine PLC or PC via Ethernet.
- Embedded ProfiNet IO (Siemens), Ethernet IP (Rockwell), EtherCAT (Omron, Beckhoff) and Modbus TCP/IP available as option.
- Multiple control points – One or more colour touch-screen panel OI-TS available in parallel to control all devices in the whole network.
- Full remote support via the Internet by our Service, available over a windows based system such as a laptop connected to the network.
- Process data can be collected and used for statistical process control.
- Profibus DP, ControlNet, DeviceNet, CanOpen and other field data protocols available through the OI-N Operator interface with the optional adapters.



FIFE D-MAXE WEB GUIDING SYSTEMS

DIMENSIONS



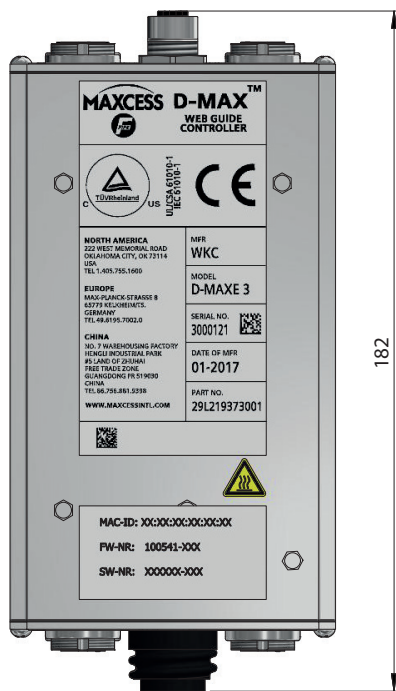
D-MAXE 1 or 2: Front



D-MAXE 1: Back



D-MAXE 2: Back



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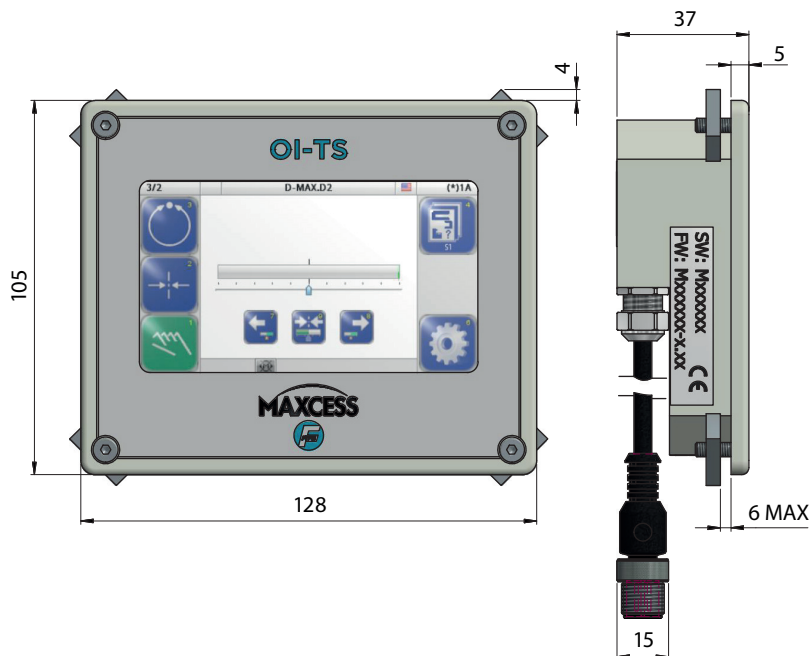


D-MAXE 3: Front



D-MAXE 3: Back

OI-TS OPERATOR INTERFACE (panel mount)



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