MAXCESS®

A **MAXCESS** BRAND

In the Fife D-MAXE system the controller and the operator interface are separate modular components, making the D-MAXE easy to integrate, especially in systems with limited space, 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, Ethernet based networking 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 display.

↘ 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 required)

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

Power Consumption
Controller max. 130 W,
Motor drive max. 200 W, at 24 VDC
or max. 400 W at 48 VDC

Drives
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 x Ethernet at 100 MBit / s for Daisy Chain

Protection Class
IP 54

Parallel Port
featuring 6 inputs, 2 outputs, line speed input

OI-TS OPERATOR INTERFACE

Weight
600 g (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, A-coded

Protection Class
IP 64

↘ Key Features

— **Compact, easy to integrate controller, even for very small 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, Profinet IO, EtherCAT, Modbus/TCP, additional networks possible via the operator interface OI-N (e.g. Profibus DP, ControlNet)**

— **2 built-in Ethernet ports for direct connection of multiple controllers (Daisy Chain)**

— **Durable construction for low maintenance and long-lasting reliability**

D-MAXE CONTROLLER

- Available in single-, dual-, and triple-drive configuration
- Versions with dual- or triple-drive configurations suitable both for independent control loops and also for combinations of control loops with automatic sensor positioning
- Ideal upgrade to Fife CSP-01, CDP-01, DP-20, DP-30 and DP-20 Plus processors
- 24 .. 48 VDC power supply voltage
- Ethernet-based proprietary secured real-time communications (MaxNet)
- Industrial protection grade: IP 54
- Certification: UL, cUL, CE and UKCA

OI-TS OPERATOR INTERFACE

- Communicates directly to a D-MAXE controller
- Easy to read, backlighted TFT touchscreen, resolution 480 x 272 pixels
- Icon and text based colored graphic user interface, intuitive and easy to use
- Freely selectable user language (16 languages available)
- Compact dimensions
- Suitable for panel- or wall-mount (bracket required)
- Protection Class IP 64

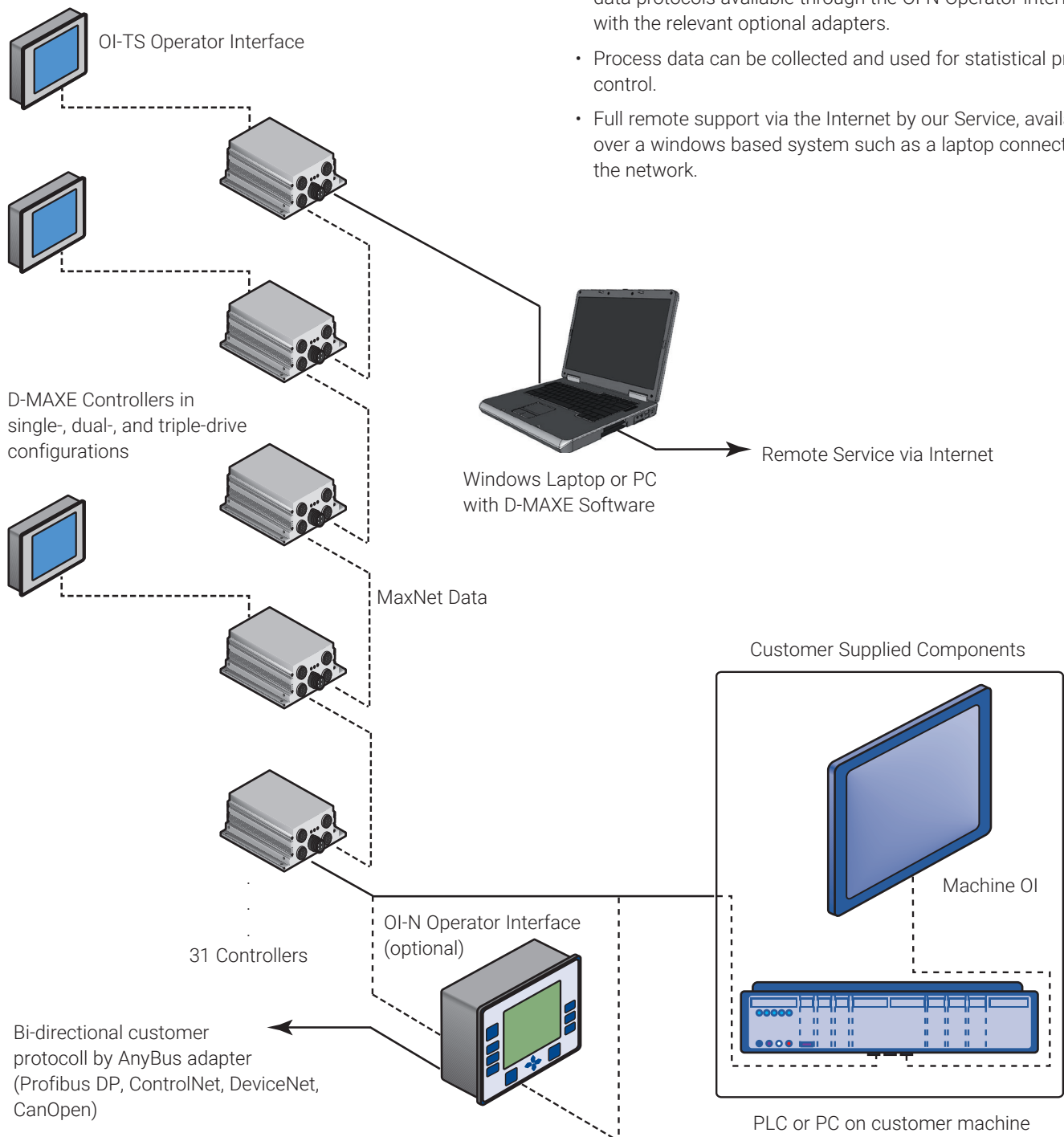## OI-N OPERATOR INTERFACE WITH INTEGRATED SWITCH

- Communicates directly with a D-MAXE controller
- 320 x 240 pixels QVGA Graphic LCD
- Graphical 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 (100 MBit / s) for guide networking and /or communication uplink to further Operator Interface Panels
- Optional CompactCom port for communication with Programmable Logic Controllers, require AnyBus Adapter: Profibus DP, ControlNet, DeviceNet, CanOpen
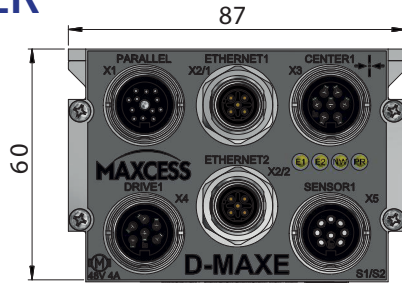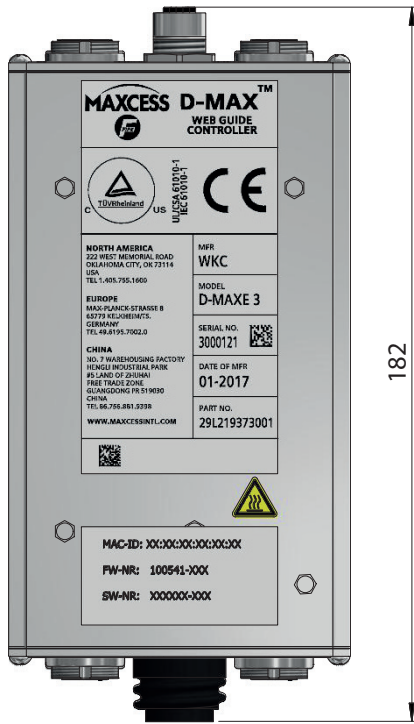
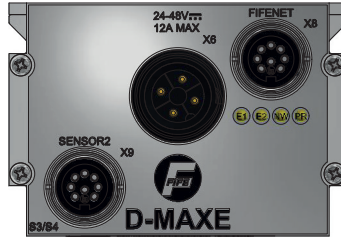## EXTENDED NETWORKING POSSIBILITIES UNDER ETHERNET

- Each D-MAXE features an integrated 2-port Ethernet switch which facilitates 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.

- Easy networking of multiple D-MAXE controllers (up to 31), with 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.

- Easy interfacing to any machine PLC or PC via Ethernet.

- Embedded Profinet IO (Siemens), Ethernet/IP (Rockwell), EtherCAT (Omron, Beckhoff) and Modbus/TCP protocols 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.

- Profibus DP, ControlNet, DeviceNet, CanOpen and other field data protocols available through the OI-N Operator interface with the relevant optional adapters.

- Process data can be collected and used for statistical process control.

- Full remote support via the Internet by our Service, available over a windows based system such as a laptop connected to the network.
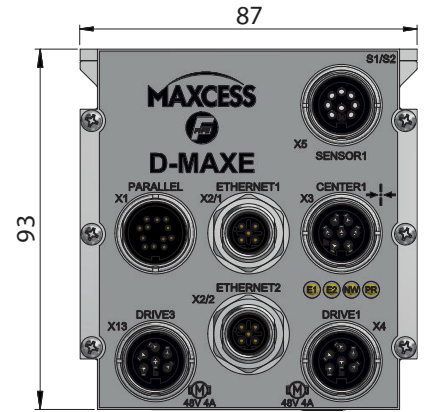
OI-TS Operator Interface

D-MAXE Controllers in single-, dual-, and triple-drive configurations

MaxNet Data

Windows Laptop or PC with D-MAXE Software

Remote Service via Internet

Customer Supplied Components

Machine OI

31 Controllers

OI-N Operator Interface (optional)

Bi-directional customer protocoll by AnyBus adapter (Profibus DP, ControlNet, DeviceNet, CanOpen)

PLC or PC on customer machine

D-MAXE CONTROLLER

D-MAXE 1 or 2: Front

D-MAXE 3: Front

D-MAXE 1: Back

D-MAXE 2: Back

D-MAXE 3: Back

OI-TS OPERATOR INTERFACE
panel mount