



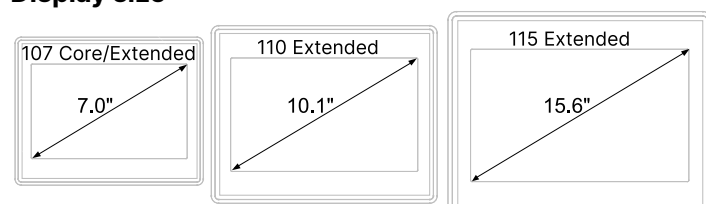
## About the TDU

TDU is a plug-and-play touch screen for iE 150, ASC 150, AGC 150, AGC-4 Mk II, AGC-4, and/or ASC-4 controllers. The TDU uses an Ethernet port to connect to the controllers.

### Model range

- TDU 107 Core
- TDU 107 Extended
- TDU 110 Extended
- TDU 115 Extended

### Display size



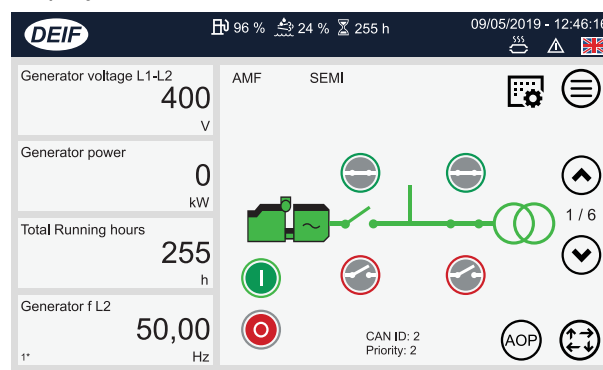
- Operator-friendly touch screen control, visualisation, and graphical overviews.
- Excellent resolution. Easily readable at sharp angles.
- Integrated HMI display and 6 Additional Operator Panels integrated on one device.
- Simple HMI and icons provide fast access and configurable instrument page.
- Stage V/Tier 4 Final support.

| Feature comparison               | Core | Extended |
|----------------------------------|------|----------|
| Asset mode                       | ●    | ●        |
| Supervision mode                 |      | ●        |
| Stage V/Tier 4 Final support     | ●    | ●        |
| Resistive touch screen           | ●    |          |
| Capacitive touch screen          |      | ●        |
| VNC support (Remote access)      |      | ●        |
| Operating range 0 °C to +50 °C   | ●    |          |
| Operating range -20 °C to +60 °C |      | ●        |
| 2 ports Ethernet switch          |      | ●        |

## TDU mode

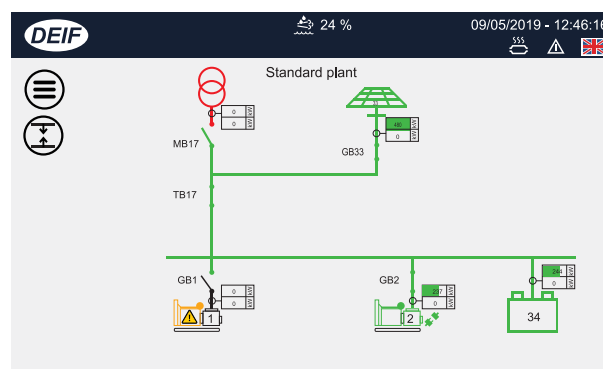
### Asset mode

Asset mode shows the real-time operation for the selected asset. An asset is a single controller controlling e.g. a genset. The operator can start/stop the asset, open/close breakers and change mode. The display shows selected measurements.



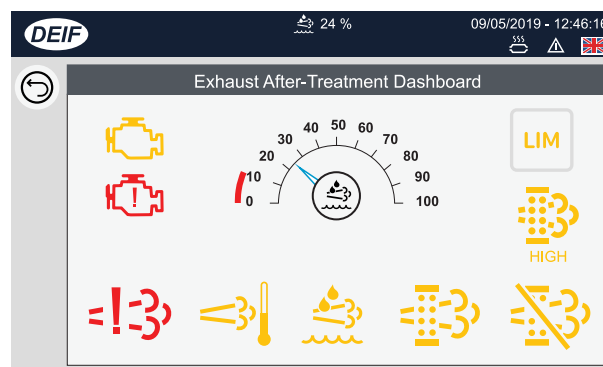
### Supervision mode

The TDU shows and monitors the entire power management plant. A single plant can have up to 40 assets. The operator can tap any asset shown to open that asset's control panel (does not apply to ALC-4).



### Stage V/Tier 4 compliance

Full support for Stage V/Tier 4 compliance. The Exhaust After-treatment Dashboard is shown if an alarm is activated.



## TDU 107 Core



- **Type:** TFT display
- **Resolution:** 800 x 480 pixel (WVGA)
- **Active display area:** 7" diagonal
- **Aspect ratio H/V:** 16:9
- **Viewing angle (H/V):** 140/120
- **Colours:** 16 bit (64K)
- **Brightness:** 200 Cd/m<sup>2</sup> typ.
- **Backlight:** LED
- **Screen saver:** Yes

## Interfaces

- Touch screen: Resistive
- Ethernet: 1 x 10/100 Mbit
- USB: 1 x USB 2.0 (hosts) - max. 500 mA

## Power supply

- Power supply voltage: 24 V DC (10 to 32 V DC)
- Current consumption: 0.3 A at 24 V DC (max.)
- Fuse: No
- Weight: Approx. 0.6 kg (un-boxed)
- Battery: Supercapacitor

## Environment

- Operating temperature: 0 °C to +50 °C (vertical install)
- Storage temperature: -20 °C to +70 °C
- Operating/storage humidity: 5 to 85% RH, non-condensing
- Vibration: 2 to 13.2 Hz ±1 mm, 13.2 to 100 Hz 0.7 g
- Shock: 50 g 11 ms
- Protection class: IP 66 Type 2 and 4X (front), IP20 (rear)

## Approvals

- CE
- UL
- cULus Listed to UL508 Industrial control equipment
- cULus Class I, Division 2

## TDU 107 Extended



- **Type:** TFT display
- **Resolution:** 800 x 480 pixel
- **Active display area:** 7" diagonal
- **Aspect ratio H/V:** 16:9
- **Viewing angle (H/V):** 170/170
- **Colours:** 24 bit (16 million)
- **Brightness:** 500 Cd/m<sup>2</sup> typ.
- **Backlight:** LED
- **Screen saver:** Yes

## Interfaces

- Touch screen: Projected capacitive, multi-touch
- Ethernet: 2 x 10/100 Mbit, 1 x 10/100/1000 Mbit
- USB: 2 x USB 2.0 (hosts) - max. 500 mA
- Remote access: VNC server

## Power supply

- Power supply voltage: 24 V DC (10 to 32 V DC)
- Current consumption: 0.7 A at 24 V DC (max.)
- Fuse: Automatic, self-resettable
- Weight: Approx. 1.3 kg (un-boxed)
- Battery: Rechargeable Lithium battery, not user-replaceable

## Environment

- Operating temperature: -20 °C to +60 °C (vertical install)
- Storage temperature: -30 °C to +70 °C
- Operating/storage humidity: 95% RH Condensation
- Vibration: 2 to 13.2 Hz ±1 mm, 13.2 to 100 Hz 0.7 g
- Shock: 50 g 11 ms
- Protection class: IP 66 (front), IP20 (rear)

## Approvals

- CE
- UL UL508 Listed (Pending), Haz. Loc. Class I, Division 2, Groups A, B, C and D (Pending)
- cULus Listed to UL508 Industrial control equipment
- Lloyds Register - LR Type Approval Certificate
- DNV GL

### TDU 110 Extended

- **Type:** TFT display
- **Resolution:** 1200 x 800 pixel
- **Active display area:** 10.1" diagonal
- **Aspect ratio H/V:** 16:9
- **Viewing angle (H/V):** 170/170
- **Colours:** 24 bit (16 million)
- **Brightness:** 500 Cd/m<sup>2</sup> typ.
- **Backlight:** LED
- **Screen saver:** Yes

### Interfaces

- Touch screen: Projected capacitive
- Ethernet: 2 x 10/100 Mbit, 1 x 10/100/1000 Mbit
- USB: 2 x USB 2.0 (hosts) - max. 500 mA
- Remote access: VNC server

### Power supply

- Power supply voltage: 24 V DC (10 to 32 V DC)
- Current consumption: 1 A at 24 V DC (max.)
- Fuse: Automatic, self-resettable
- Weight: Approx. 1.7 kg (un-boxed)
- Battery: Rechargeable Lithium battery, not user-replaceable

### Environment

- Operating temperature: -20 °C to +60 °C (vertical install)
- Storage temperature: -30 °C to +70 °C
- Operating/storage humidity: 5 % to 85 % RH, non-condensing
- Vibration: (IEC 60068-2-6 and IACS UR E10) 2 to 13.2 Hz ±1 mm, 13.2 to 100 Hz 0.7 g
- Shock: (IEC 60068-2-27, test Ea) 50 g 11 ms
- Protection class: IEC/EN 60529, IP 66 (front), IP20 (rear)

### Approvals

- CE - EN 61000-6-4, EN 61000-6-4, EN 60945-2002
- DNV/GL - IEC 60092-504, IEC 60533
- UL - UL508 Listed, CSA C22.2 142-M1987, UL 61010-1, CSA C22.2 61010-1-12, Haz. Loc. Class I, Division 2, Groups A, B, C and D
- Lloyds Register - LR Type Approval Certificate
- EU RO Mutual Recognition
- Cyber security conducted towards compliance with the draft IEC 62443 series

### TDU 115 Extended

- **Type:** TFT display
- **Resolution:** 1366 x 768 pixel
- **Active display area:** 15.6" diagonal
- **Aspect ratio H/V:** 16:9
- **Viewing angle (H/V):** 160/160
- **Colours:** 24 bit (16 million)
- **Brightness:** 400 Cd/m<sup>2</sup> typ.
- **Backlight:** LED
- **Screen saver:** Yes

### Interfaces

- Touch screen: Projected capacitive
- Ethernet: 2 x 10/100 Mbit, 1 x 10/100/1000 Mbit
- USB: 2 x USB 2.0 (hosts) - max. 500 mA
- Remote access: VNC server

### Power supply

- Power supply voltage: 24 V DC (10 to 32 V DC)
- Current consumption: 1.2 A at 24 V DC (max.)
- Fuse: Automatic, self-resettable
- Weight: Approx. 4.1 kg (un-boxed)
- Battery: Rechargeable Lithium battery, not user-replaceable

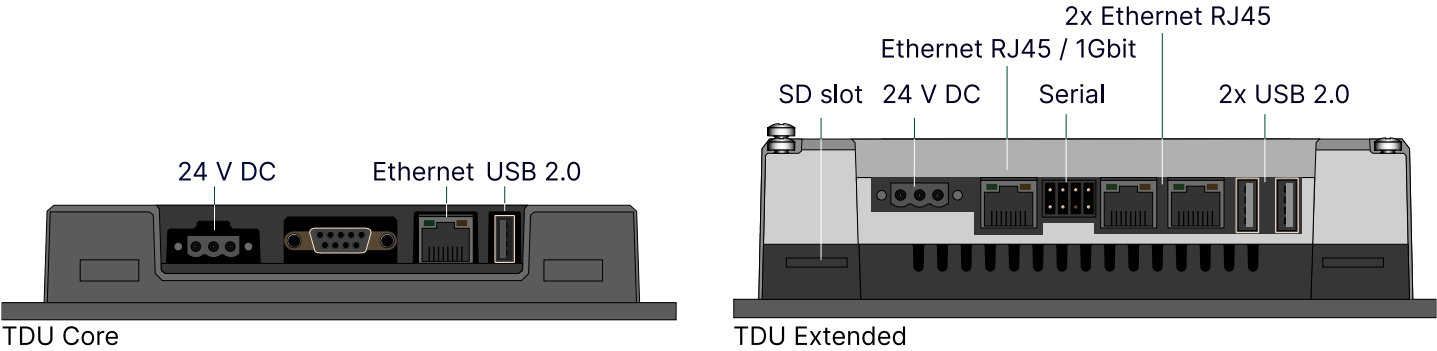
### Environment

- Operating temperature: -20 °C to +60 °C (vertical install)
- Storage temperature: -30 °C to +70 °C
- Operating/storage humidity: 5 % to 85 % RH, non-condensing
- Climatic tests: 95 % RH Condensation IEC 60068-2-30 Db (Cyclic)
- Vibration: IEC 60068-2-6 and IACS UR E10, 2 to 13.2 Hz ±1 mm, 13.2 to 100 Hz 0.7 g
- Shock: IEC 60068-2-27, test Ea, 50 g 11 ms
- Protection class: IEC/EN 60529, IP 66 (front), IP20 (rear)

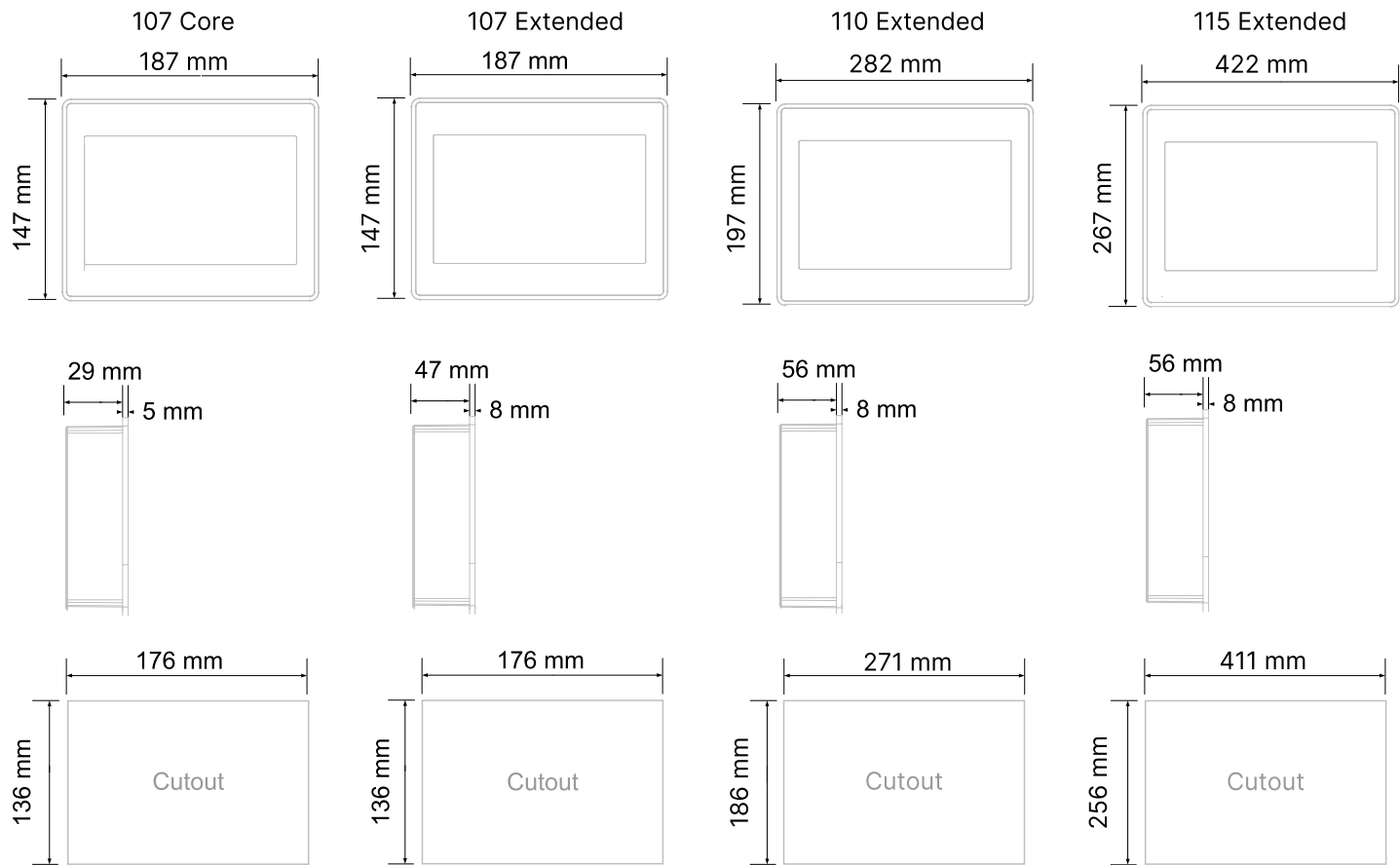
### Approvals

- CE - EN 61000-6-4, EN 61000-6-4, EN 60945-2002
- DNV/GL - IEC 60092-504, IEC 60533, DNV GL Type Approval Certificate
- UL - UL508 Listed, CSA C22.2 142-M1987, UL 61010-1, CSA C22.2 61010-1-12, Haz. Loc. Class I, Division 2, Groups A, B, C and D
- Lloyds Register - LR Type Approval Certificate
- EU RO Mutual Recognition
- Cyber security conducted towards compliance with the draft IEC 62443 series

Connections



Dimensions



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