Product sheet

Touch Display Unit TDU

**General description**

TDU 107 is a preprogrammed touch screen solution for connection to DEIF's AGC-4 controllers via an Ethernet port.*

The displays provide user-friendly touch screen control, visualisation and graphical overviews with a quality display that is easily readable even at sharp angles.

Combines both a HMI display and 6 AOP (Additional Operator Panel) on one device. Easy to use icon driven HMI providing fast access and configurable instrument pages.

Provides Tier 4 final support.

The TDU 107 is available in two versions:

- TDU 107 Core
- TDU 107 Extended

* AGC-4 requires the Ethernet option N for connection.

**Feature comparison**

<table>
<thead>
<tr>
<th>Feature comparison</th>
<th>Core</th>
<th>Extended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tier 4 final support</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Resistive touch screen</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>Capacitive touch screen</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>VNC support (Remote access)</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>Temperature range 0 °C to + 50 °C</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>Temperature range -20 °C to + 60 °C</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>2 ports Ethernet switch</td>
<td></td>
<td>●</td>
</tr>
</tbody>
</table>

**Common features**

**Easy setup**

Simply connect an Ethernet cable to the AGC-4 controller.

**Supervision**

Instant overview of all connected controllers in your application, including live status and alarms.

**Tier 4 final support**

Full support for Tier 4 icons including an Exhaust After-treatment dashboard.
## TDU 107

### Technical specifications

#### TDU 107 Core

- **Type:** TFT
- **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/m² 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: 5-85% 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
- **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/m² 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
- VNC server - Remote access

**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
**Fast instrument selection**

Easily configure your live data information by selecting the required instrument readout, directly on the screen.

**Alternator curve**

Visual display for the safe operation limits for the alternator. *GENSET actual working point is represented by the green dot.

* AGC-4 requires option C2 to see operation limits.

**Additional operator panels (AOP)**

Configure up to 6 additional operator panels, providing customisable buttons and LEDs for controller functions.

**Alarm or event logs**

Easily filter only alarm or log events, or merge them back into one single list. Filter events for a given date start and end.

**Light or dark themes**

Switch the display between light or dark themes.

**Quick Input / output overview**

Quick overview for the status of all inputs and outputs.
Touch Display Unit TDU

Connections

TDU 107 Core

- Power supply
- Ethernet
- USB

TDU 107 Extended

- 2 pcs. RJ45
- RJ45/1 Gbit
- 2 pcs. USB2
- Serial
- 24 V DC
- SD card

Dimensions

TDU 107 Core

- 187 mm (A)
- 147 mm (B)
- 136 mm (D)

Cutout

TDU 107 Extended

- 187 mm (A)
- 147 mm (B)
- 136 mm (D)

Cutout

For more information, please contact:
DEIF A/S · Frisenborgvej 33 · DK-7800 Skive · Denmark
Tel.: +45 9614 9614 · Fax: +45 9614 9615 · info@deif.com · www.deif.com

© Copyright DEIF A/S 2019. All rights reserved. Document no. 4189390003C