FUEL-FACS⁺ DET

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DET for Use with FUEL-FACS+ Terminal Automation System

The TechnipFMC FUEL-FACS+ driver entry terminal (DET) is fully integrated with the FUEL-FACS+ Facility Business System (FBS) terminal automation system (TAS). Featuring a 8.4-inch touchscreen interface, the FUEL-FACS+ DET has a rugged, weatherproof enclosure that can be installed anywhere that drivers and terminal personnel need to interact with FUEL-FACS+. The FUEL-FACS+ DET can communicate simultaneously with FUEL-FACS+ and a card reader, and it supports both serial and Ethernet communications.

Features

- Designed for terminals using the FUEL-FACS+ FBS
- Based on TechnipFMC´s renowned AccuLoad® platform

Features

- 8.4-inch touchscreen interface
- Integrated card reader (N4) and cardless options
- Class I, Division 2 and Class I, Division 1 explosion-proof (Ex d)-rated models
- Interfaces to Class I, Division 1, Ex d card reader (sold separately)

Specifications

Electrical Inputs

- Alternating current (AC) universal input of 100 to 240 volts alternating current (VAC), 58 watts (W) maximum, 48 to 63 hertz (Hz); the AC circuitry is fuse-protected
- Surge current of 28 amps (A) maximum for less than 0.1 second
- Power interruption tolerance is greater than .05 second (typical) and causes an orderly shutdown of the DET

Human-Machine Interface (HMI)

- 8.4-inch screen size
- 800 x 600 resolution
- Liquid-crystal display (LCD) technology using an active-matrix thin-film transistor (TFT) with 16.77 million colors
- Backlight: white LED
- Resistive touchscreen

Communications

General

- Two programmable ports for EIA-232 and EIA-485 and one Ethernet port

- Multidrop network for up to 32 DETs that can be connected onto the same transmit and receive data lines via serial communications

> **Note:** Standard information technology (IT) practices should be followed when connecting multiple DETs via an Ethernet hub, router, or switch.

- User interface-selectable to asynchronous data rates of 4,800, 9,600, 19,200, or 38,400 bits per second (bps) (serial communications)
- Half-duplex or full-duplex transmission mode line protocol; no character echo

EIA-232

- Interfaceable with EIA-232 data communications standards
- Tri-state design data transmitters

EIA-485

- Interfaceable with EIA-422 or EIA-485 data communications standards

Ethernet 10/100 Base RJ-45

- EIA-568, Category (Cat) 5 cable or greater

Integrated Contactless Proximity Card Reader Option

Card Interface

- Excitation frequency of 125 Hz
- Typical read range within up to two inches of reader surface

For card specifications and details on the Ex d card reader version, see the Proximity Card Reader specifications (SS06044).

Environment

- Ambient operating temperature from -40 to 60 ˚Celsius (C)
- Humidity from 5 to 95%, non-condensing
- Enclosure options include:
    - Industrial-type NEMA 4X with approximate weight of 35 pounds (lb)
    - Explosion-proof housing with approximate weight of 50 lb

Electrical Safety Approvals

Explosion-Proof Enclosure (Optional)

Class I, Division 1, Groups C & D; UNL-UL Enclosure 4X, CNL-CSA Enclosure 4 Class I, Zone 1, Group IIB, Class I, Zone 1, AEx d ia IIB T6 Gb, IP65 Tamb = -40 to +55 °C UL File E23545

> **Note:** The touchscreen is rated to a maximum of 55 °C AMB for UL/CUL due to UL requirements for surfaces to be touched by a human operator.

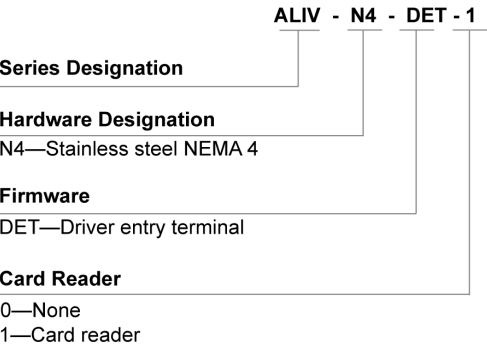DEMKO 15 ATEX 1462X; IEC Ex UL 15.0016X Ex d ia IIB T6 Gb IP 65 Tamb = -40 to +60°C

NEMA 4 Enclosure

Industrial-type 4X stainless steel; Class I, Division 2, Groups C & D; Class I, Zone 2, Group IIB T4 Tamb = -40 to +50 °C, UNL-UL ENCL. 4X, CNL-CSA ENCL.4, UL File E23545
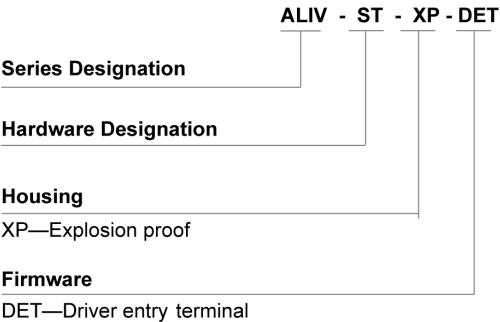
> **Note:** The DET does not contain intrinsically safe protected circuitry for field connections; therefore, all peripheral equipment must be suitable for the environment in which it is installed.
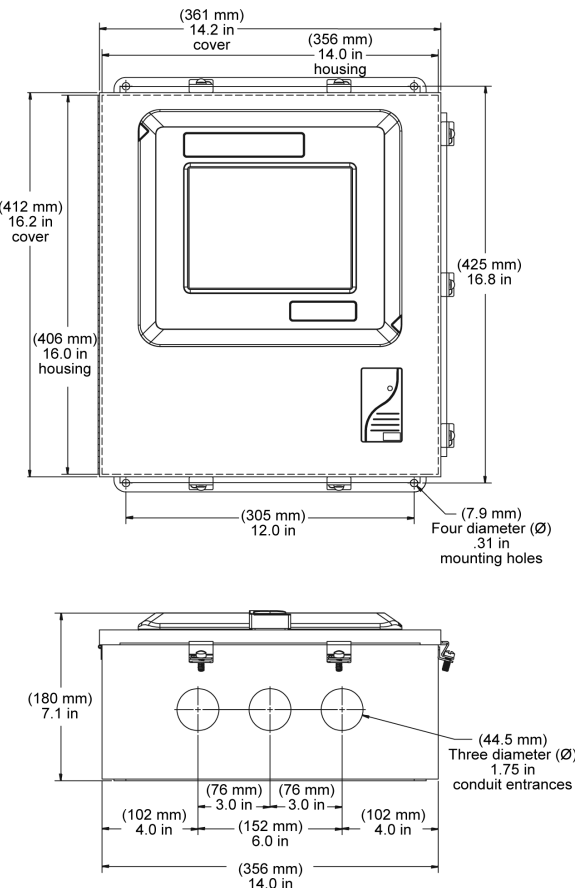
Modeling Code

Class I, Division 2

ALIV - N4 - DET - 1

Series Designation

Hardware Designation
N4—Stainless steel NEMA 4

Firmware
DET—Driver entry terminal

Card Reader
0—None
1—Card reader

Explosion-Proof Class I, Division 1

ALIV - ST - XP - DET

Series Designation

Hardware Designation

Housing
XP—Explosion proof
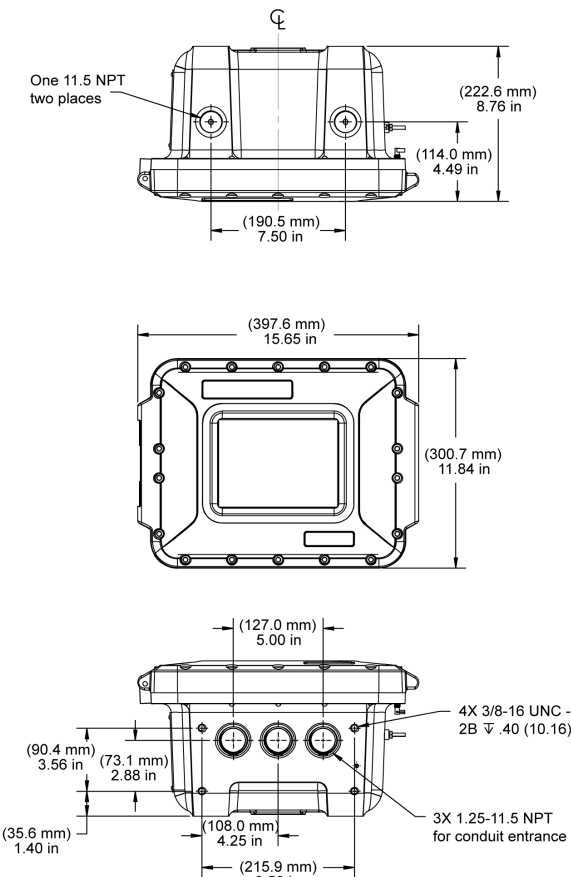
Firmware
DET—Driver entry terminal

Dimensions

N4 Enclosure

Explosion-Proof Enclosure

The specifications contained herein are subject to change without notice and any user of said specifications should verify from the manufacture that the specifications are currently in effect. Otherwise, the manufacturer assumes no responsibility for the use of specifications which may have been changed and are no longer in effect.

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