

# Azonix Driller Unit - ADU

## Directional drilling rose dial

- ATEX Zone 1 rating
- Single connection for power & comm.
- Configurable displays
- Lightweight
- Rugged and sealed (made for rig floor environment)
- RoHS compliant



**The Azonix Drilling Unit (ADU)** was developed as a cost effective directional drilling display to help the driller validate the azimuth and inclination. Sporting a large rose dial showing the last four tool readings at five degree increments and a clean tool face display that can be read from over 15 feet away, the Azonix ADU will help reduce errors and minimize operator fatigue. The ADU has four configurable displays that can be programmed to show any relevant drilling data.

**The bottom display is fully alpha-numeric** and can support a wide variety of messages to the operator on the rig floor to avoid costly mistakes.

**The ADU is designed for quick** rig up / rig down requiring only one connection that includes both power and communication. An ergonomic handle enables easy transport of the light weight unit as well as a variety of mounting options. With over sixteen years of experience developing products for the rig floor, Azonix has designed the ADU to meet the shock, vibration and contamination exposure requirements of this harsh environment.

**The ADU is another solution** within the Azonix integrated HMI product lines for the rig floor. Meeting the ATEX Zone 1 global hazardous area certification, we have also designed and manufactured the system to meet the European Union RoHS directive.

**Azonix continues to drive product leadership** in the oil and gas exploration market integrating intrinsic safety, electronic packaging with application know-how resulting with valued solutions for our customers.

### Application Note

The Azonix Drilling Unit resides in the hazardous area. It interfaces to the safe area via an industrial grade cable connecting both power and communication to the ADU.

In the safe area, the power and communication signals need to pass through a safety barrier per the specification overleaf, as these are intrinsically safe rate signals.

# Azonix Driller Unit

February 2017

## SPECIFICATION

### Toolface Display

0.75" High, 5:1 Contrast Ratio

### Multifunction Display

0.47 " High, 5:1 Contrast Ratio

### Rose Dial Display LEDs

Green: outermost ring,(most current data)

Yellow: 3 inner most rings (historical data)

### Rose Dial Resolution

5 degrees

### Ambient Light Sensor

For brightness control of the LEDs

### Communication Protocol

Custom

### Power Input Voltage

10 – 14V DC

### Power On Indicator

Green LED

### Input power & signal barrier

MTL765 or similar

## ENVIRONMENTAL

### Enclosure Rating

NEMA4 / Full IP65

### Shock

40G, 11 ms pulse with 3 axis

### Vibration

2G peak to peak, 10-600Hz . 3 axis

### EMI & Safety

FCC/CE Class A, IEC1 Zone 1, ATEX: Zone 1

### Operating Temperature

**Operating** -20°C to +50°C

**Storage** -40°C to +70°C

## MECHANICAL

### Housing

Aluminum

### Mounting

Rear VESA 75, Handle mount

### Dimensions

42.5cm x 25.6cm x 6.6cm

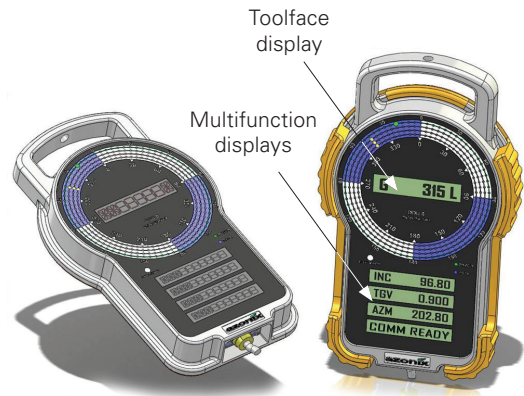
16.75" x 10.09" x 2.58"

## Weight

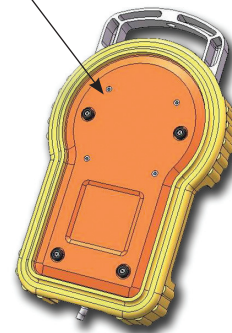
3.2kg / 7 lbs

## FUTURE SPECS

- RS485 Connection
- Heater
- Back Light



VESA mount



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