

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.



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

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, IECex 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

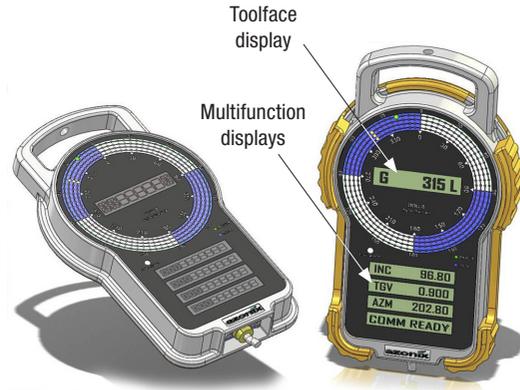
16.75" x 10.09" x 2.58"

Weight

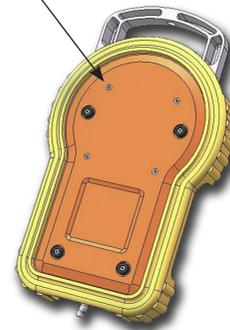
3.2kg / 7 lbs

FUTURE SPECS

- RS485 Connection
- Heater
- Back Light



VESA mount



The given data is only intended as a product description and should not be regarded as a legal warranty of properties or guarantee. In the interest of further technical developments, we reserve the right to make design changes.