

ProPanel® PRO4500Z1

Zone 1 workstation

- ATEX Zone 1, IECEx Class 1 Zone 1
- 15 inch, sunlight-readable, LED backlit display
- Intel® Core™ i7 2655LE processor
- 4GB to 16GB RAM
- Storage: 64GB to 256GB SSD
- projected capacitive glass-based touchscreen
- I.S. wireless 802.11 a/b/g/n protocol
- wide operation AC power, 90V-265V
- lightweight, multiple mounting options
- wide operating temperature range -40°C to +60°C



ProPanel® PRO4500Z1 is the ultimate hazardous area workstation for the rig floor. Leveraging the latest in portable computing technology, Azonix is able to integrate full client computing performance into a small light-weight enclosure while still meeting such key requirements as:

- **Wide temperature range** for global installations
- **Zone 1 approval** without using purge, explosion proof enclosure or sand fill methods which are not exploration friendly
- **<20Kg** enabling a single person installation
- **Intrinsically safe ports** for quick connect and disconnect avoiding expensive Ex d connectors and increasing rig up-time.

Azonix is also introducing new technologies in the ProPanel PRO4500Z1, driven by our I.S. knowledge, extensive customer research and accumulation of field data from a fleet of thousands of systems.

Azonix has developed a new glass base projected capacitive touchscreen with an enhanced optical interface that can be operated with gloves. The glass base front will not discolour with time nor is it as susceptible to scratches as are other non-glass based touchscreens. This touchscreen also features multi touch operations.

Azonix created the versatile step-mounting scheme to enable multiple mounting options as required on the rig without damaging cables or requiring the system to be opened, which reduces product reliability.

Another technological improvement is with our patented I.S. radio. The latest version integrates the 802.11 a/b/g/n protocols increasing communication bandwidth and is also depot configurable for different global regions.

Azonix's goal with the launch of the 8th generation Zone 1 platform, the ProPanel PRO4500Z1, is to create a global asset that can run the latest software packages on the rig floor reliably.

PRO4500Z1 APPLICATIONS

The PRO4500Z1 is the ultimate Zone 1 workstation that is designed to run rig floor applications. Such as:

- Directional Drilling
- MWD / LWD
- Mud logging
- Casing
- Well stimulation
- Under balance drilling
- Rig instrumentation

The PRO4500Z1 is a rugged HMI that can be transported from rig to rig or easily mounted in permanent locations. The I.S. wireless option provides high security, high speed communications for accelerating rig-up / rig-down in difficult installation locations, eliminating cable cost and reducing labor.

SPECIFICATIONS

Display

15-inch TFT, 1024 x 768 pixels, LED backlit, sunlight viewable

Touch Screen *

Projected capacitive glass-based touch screen, anti-glare

Processor

Intel® Core™ i7 2655 LE Processor (2.2Ghz)

Memory

4GB to 16GB

Storage

>64GB SSD

Interface

I.S. function numeric membrane keypads - Power On/Off, wireless LAN, brightness control and Bluetooth power on

Connectivity I.S.

1 x USB, 1 x 10/100 LAN, 802.11 a/b/g/n (serial port-contact factory)

Fiber Port Option

1 to 4 ports 1310nm (100 Mbps) (100Fx) (Strantech) or 850nm (100 /1000Mbps) (1000Sx)

Bluetooth

Version 2.1 and EDR compliant

Power Supply

90 - 265 VAC, 47-63 Hz

Enclosure Rating

IP66 with connectors mated or dust caps installed

Shock

MIL-STD 810G, Method 516.6, Procedure I,- Functional shock

OPERATIONAL: 40G peak, sawtooth, 11msec duration, both directions, all axes

STORAGE: 40G peak, sawtooth, 11msec duration, both directions, all axes

Certifications

ATEX Zone 1, IECEx Class 1, Zone 1, T4 temperature category and gas group IIC

Vibration

MIL-STD-810G, Method 514.6,

OPERATIONAL: 2.2G RMS, profile covering 20 – 2000 Hz, 1 hour per axis

STORAGE: 3.4G RMS, profile covering 20 – 2000 Hz, 1 hour per axis

EMI & Safety

CE: Emissions per IEC 61000-6-4 and Immunity per IEC61000-

6-2 FCC: Part 15, Subpart B, Class A limits IC: Emissions per section 5.2 and 5.4

Humidity

MIL-STD-810G, Method 507.5

Operational: 10 to 95% non-condensing

Storage: 10 to 95% non-condensing

Temperature Ratings

Operational: -40°C to +60°C

Storage -40°C to +75°C

Operating System

Windows 7

Mounting *

Rear VESA 100 mounting points

Side Yoke Mounting points (pending)

Dimensions

43 x 38 x 15.3 cm

16.9 x 15 x 6 inches

Weight

< 44lbs (<20kg)



OPTIONAL ACCESSORIES

PART NUMBER	DESCRIPTION
33-100197	Pelican Case
P60-700018	I.S. Keyboard
20-203063	Power Pig Tail 10M
20-202032	ES1000 Ethernet Switch
MTL 9465-ET-M-ST	Copper to Fiber Convertor
Contact Factory	Armored Fiber Cable 300m
Contact Factory	Wireless extension cable
	LNR400 15m + 3DB Omni
	Directional antenna & mounting bracket



Pelican Case



MTL 9465 ET-M-ST



ES1000 Ethernet Switch



Keyboard is certified by FM for Class 1 Division 1 approval only