MTL ProPanel® PRO4500-Z1

Zone 1 workstation

- **ATEX Zone 1, AEx and IECEx Class 1 Zone 1**
- **15 inch, sunlight-readable,**
- **LED backlit display**
- **Intel® Core™ i7 2655LE processor**
- **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 approved** 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 PRO4500-Z1, 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.

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 PRO4500-Z1, is to create a global asset that can run the latest software packages on the rig floor reliably.

PRO4500-Z1 applications

The PRO4500-Z1 design pushes computing further into the realm of point-of attack applications for operations in hazardous areas at a competitive price. Examples of field applications include:

- Rig Instrumentation
- Directional Drilling
- Measurement and logging while drilling (MWD/LWD)
- Coil tubing
- Well Stimulation
- Casing
- Mudlogging
- Production platforms

The PRO4500-Z1 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.

Powering Business Worldwide

Azonix Corporation
Eaton Experience Center
3413 North Sam Houston Parkway West
Suite 200
Houston TX 77086, USA
Azonix Business Center Toll Free: +1-800-835-7075
www.azonix.com

© 2016 Eaton Corporation
All Rights Reserved
Publication No. EPS PRO4500 rev2
September 2016

SPECIFICATION

Display
15-inch TFT

Resolution
1024 x 768

Brightness
High luminance LED backlighting, sunlight viewable

Touch Screen *
Projected capacitive glass-based sensor

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

Memory
up to 16GB (4, 8, 16GB)

Storage
2.5-inch SSD > 64GB

Connectivity I.S.
1 x USB, 1 x 10/100 LAN, 1 x Serial Port RS-232, 802.11 a/b/g/n

Fiber Ports
1 or 4 port 100/1000 Mbps fiber ethernet connections 802.3 compliant to Ex "op is" standard

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

Vibration
MIL-STD-810G, Method 514.6, Procedure I, Category 20 – Ground vehicle, wheeled
OPERATIONAL: 2.2G RMS, profile covering 20 – 2000 Hz, 1 hour per axis
STORAGE: 3.1G 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

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 / sunshade kit
Panel Mount kit

Dimensions
43 x 38 x 15.3 cm
16.9 x 15 x 6 inches

Weight
< 44lbs (<20kg)

Certifications
ATEX Zone 1, IECEx Class 1, Zone 1, N.A. IECEx Class1, Zone 1

Options:
Wireless Kit (cable & antenna)
One or four port fiber
Bluetooth Zone 1 keyboard
Touch Screen
Wireless Radio
Panel Mount Assembly
Pelican Case
Visor and Yoke Assembly
External USB dongle

Intelligent connectivity with Intel Inside®.

Powering Business Worldwide

Azonix Corporation
Eaton Experience Center
3413 North Sam Houston Parkway West
Suite 200
Houston TX 77086, USA
Azonix Business Center Toll Free: +1-800-835-7075
www.azonix.com

© 2016 Eaton Corporation
All Rights Reserved
Publication No. EPS PRO4500 rev2 010916
September 2016

EUROPE (EMEA):
+44 (0)1582 723633
mtlenquiry@eaton.com

THE AMERICAS:
+1 800 835 7075
mtl-us-info@eaton.com

ASIA-PACIFIC:
+65 6 645 9888
sales.mtlsing@eaton.com

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.