



Underground Visualization System DZW-1 is designed to control, manage, visualize and monitor in underground mining chambers. It uses an industrial computer with the CPU performance selected towards customer needs. The construction of monitor allows to connect optionally up to 8 CCTV cameras. Depending on the version, video signal can be transmitted with coaxial cable, UTP cable or fiber optic cable. Additionally the device has two Ethernet fiber optic 100Base-FX ports, what allows to send image over long distances. Thanks to the application of two Ethernet ports, external intrinsically safe Ethernet switch is no longer needed for fiber optic transmission of images to the computer and on the surface of mining plant.

41-400 Mysłowice

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▼ Technical characteristics:

ATEX certificate number **KDB 11 ATEX 121**

Supply parameters:

Supply voltage U_N 230 (+10%, -15%) VAC 42 (+10%, -15%) VAC

Supply voltage frequency 50 Hz

Power consumption 120 W for 230 VAC 200 W for 42 VAC

Device parameters:

19" Monitor

Keyboard IKB-1 or compatible

Number of CCTV cameras (optionally) maximum 8

Video line version (option) coaxial cable, UTP cable or

fiber optic cable

build-in, with Ethernet output Video servers (option)

on fiber optic bus

2, 100Base-FX standard Ethernet ports

Cooperation with ATUT-NET network full compatibility Cooperation with ATUT-MFE network full compatibility

Fiber optic parameters:

Ethernet optic port 100Base-FX Fiber optic type 9/125 µm, SM

Transmission type WDM, one SM fiber for

two-way transmission

600bps, 1200bps, 2400bps, 4800 bps, Serial transmission speed

> 9600bps, 19200bps, 28800bps, 38400bps, 57600bps, 115200bps,

> > ____

230400bps

Normal working conditions:

Device category IM2

Casing type

version W1, W2, W5 Ex d [ia] [ib] [op is] I Mb

Ex d [ia] [ib] I Mb version W6 version W3, W4, W7 Ex d [ib] [op is] I Mb

Gas explosiveness group

Working temperature range $0^{\circ}C \div 40^{\circ}C$ Air humidity max 95%

Casing protection degree **IP65**

Mechanical exposure low

Type of work continuous Weight ~95 kg

Dimensions (width x height x depth) 576 x 640 x 250 mm

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