MCU2

Main Control Unit

Applications:

> Visualization of all longwall data underground at gate end

> Change and control parameter from gate end

> Analysis of longwall system operation and situation

> Provide relevant process and HEALTH data to surface mine control room

Features:

> Comprehensive software suite (HEALTH for Longwall) serving application software for Roof Support, AFC, Shearer and Plow

> Multi-language support (English, German, Russian, Polish, Czech, Spanish, Chinese)

> Robust IPC architecture for reliable operation in hazardous areas

> IS external keyboard with mouse function

> Robust design for sudden Methane face wide power off

SPECIFICATIONS

Electrical Power Supply

> Power supply of the explosion-proof part, 110-240V AC

> Power supply of the intrinsically safe part, 12V DC, maximum 2A

> Non-intrinsically safe USB interface

Components

Processor	Intel Core i7, 2.1 GHz	
RAM Memory	4 GB	
Data Memory	2 × 120 GB SSD	
Hard Drive – 1 TB	6.4 cm	2.5 in
Display	48.3 cm	19 in
Resolution	1280:1024	
Operating System	Windows 7	
Input Equipment	Keyboard with integrated mouse	

Intrinsically Safe Interfaces

> COM 1 BIDI SKK24

> COM 2 BIDI SKK24

> COM 3 BIDI SKK24

> COM 4 BIDI SKK24

> Ethernet via Fiber-Optic Cable – 9 µm

Certifications and Identification

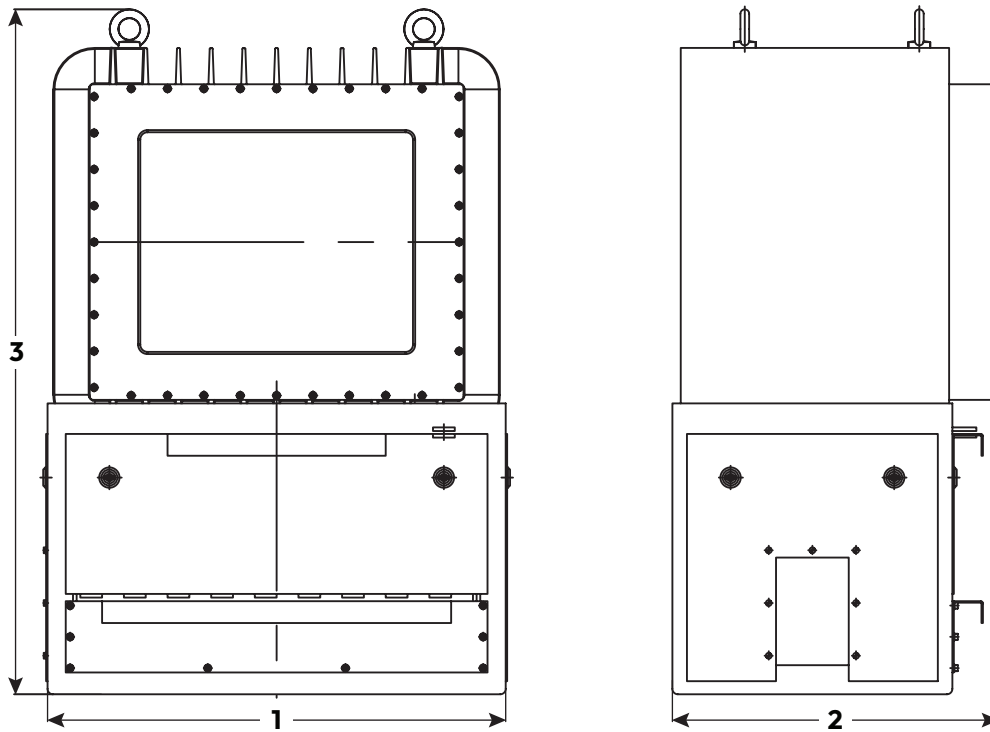|	
Certification	ATEX (within system: MA and GOST)
Type of Protection	I M2 EEx ib I
Temperature Range	–20° C to +60° C –4° F to +140° F

Weight

Approximate Weight	200 kg	441 lb

H·B·T

MCU2 Main Control Unit

Dimensions

All dimensions are approximate.

#		mm	in
1	Width	630 mm	24.80 in
2	Height	450 mm	17.72 in
3	Length		
	Small Base	945 mm	37.20 in
	Large Base	1145 mm	45.08 in

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