



# Cat<sup>®</sup> 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

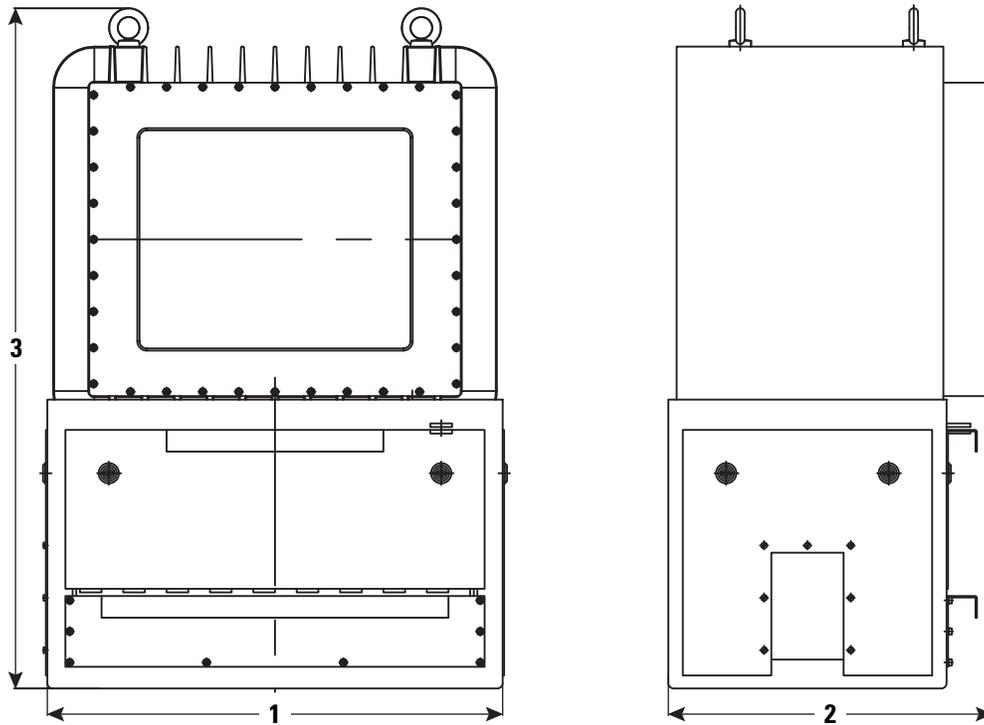
### Certifications and Identification

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
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# MCU2 Main Control Unit



## Dimensions (All dimensions are approximate.)

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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