

# DATA SHEET

## HydroBlast Remote Control Monitor System

Model 7100MG

The fully automated, intelligent, remote controllable and configurable Elkhart Brass HydroBlast monitor system is designed to provide the flexibility and reliability required for automatic mining equipment washdown and non-classified location fire suppression applications. Designed for frequent, repeated and multi-spray pattern applications, the HydroBlast is equipped with seals and bearing designs that provide ultimate protection against fine mining dust and water ingress to ensure durability. In addition, the HydroBlast system offers programming and configuration flexibility that enables customers to choose from utilizing the HydroBlast remote control system or using customer plant PLC control unit to control the functions of the HydroBlast system.



HydroBlast Monitor

### Features

- Silicon Bronze monitor construction for corrosive and non-corrosive environment applications
- Sealed industrial grade bearings with no need for greasing
- Double race bearing and thrust bearings to ensure durability
- Patented thrust rod design
- Programmable safety stops
- Adjustable mechanical end stops with 10o limit increments
- Modular expandable
- 10-inch touch screen remote control unit
- Ethernet IP or Modbus TCP communication protocol
- Programable oscillation and speed control
- Autoactivate feature enabling activation of saved configuration via asset tag
- Heavy duty cycle brush and brushless motor options
- Absolute position feedback sensing
- IP68 ingress protection
- Military grade harnessing and connections
- Cat 5e copper or Fiber (multimode or single mode) networking
- Up to 1.2 miles (2 km) distance between nodes with multi-mode fiber
- Optional joystick control
- Optional protective cage to ensure monitor protection against flying rocks and ore
- 2 Year limited warranty for monitor system and 2-year limited warranty for control unit



HydroBlast CAN to Ethernet IP Gateway



HydroBlast Remote Control Unit

1-574-295-8330  
www.elkhartbrass.com

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FIRE FIGHTING EQUIPMENT A SAFE FLEET BRAND

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## Specifications

Monitor	
Max rated pressure	250 psi
Flow rate	50 to 700GPM (180 to 2550 LPM) @ 100psi (7 bar)
Inlet Size	2.5-inch 150# FF flange DN80 table E (AS2129) FF flange
Motors	24 VDC brush type PMDC style motors 48VDC brushless motor
Oscillation range	V: -45° to +90° (135°) H: 350° options
Nozzle Pattern	Standard: Straight stream Optional: Straight stream to wide fog
Stream Reach	Up to 271 feet (83 m)
Material	Marine grade silicon bronze
Dimensions	See drawing at page 3
Weight	67 lbs. (30.391 kg)
Ambient Temperature	-13 °F to 149°F (-25°C to 65°C)
Gateway Specification	
Input power	300mA @ 24VDC
Dimensions	4.3" x 1.4" x 4.0" (110mm x 35mm x 101mm)
Weight	0.4 lbs (184g)
Ingress protection	IP20 NEMA 1
Operating temperature	-13° F to 70° F (-25° C to 70° C)
Optional IP67 enclosure	IP 67 rated; 316 stainless steel; Dimensions 20" x 12" x 24" (508mm x 305mm x 609mm) LxWxH
Optional enclosure weight	500 lbs (227 kg)
Certification	UL listed to UL 61010-1 and UL 61010-2-201 ATEX certified to EN 60079-0 and EN 60079-15 CE Certified to EN61000-6-2 and EN61000-6-4
Remote Control Unit Specification	
Input Power	100-120VAC @ <2.1A, 220-240VAC @ <1.0A
Dimensions	Screen: L: 15" x W: 15" (381 mm x 381 mm) Mounting: 20" x 20" x 12.27" (LXWXH) (508 mm x 508 mm x 311.66mm)
Enclosure Rating	NEMA 12/13/4X, IP54, IP65, for Indoor Use
Material	Painted Carbon Steel
Weight	55 lbs (25 kg)
Ambient temperature	32° F to 131° F (0° C to 55° C)
Network Connectivity	
Type	Maximum Distance Between Nodes
Multimode fiber optic cable	6,560 ft (2 km)
Single mode fiber optic cable	65,616 ft (20 km)
Cat 5e Ethernet cable	250 ft (0.076 km)



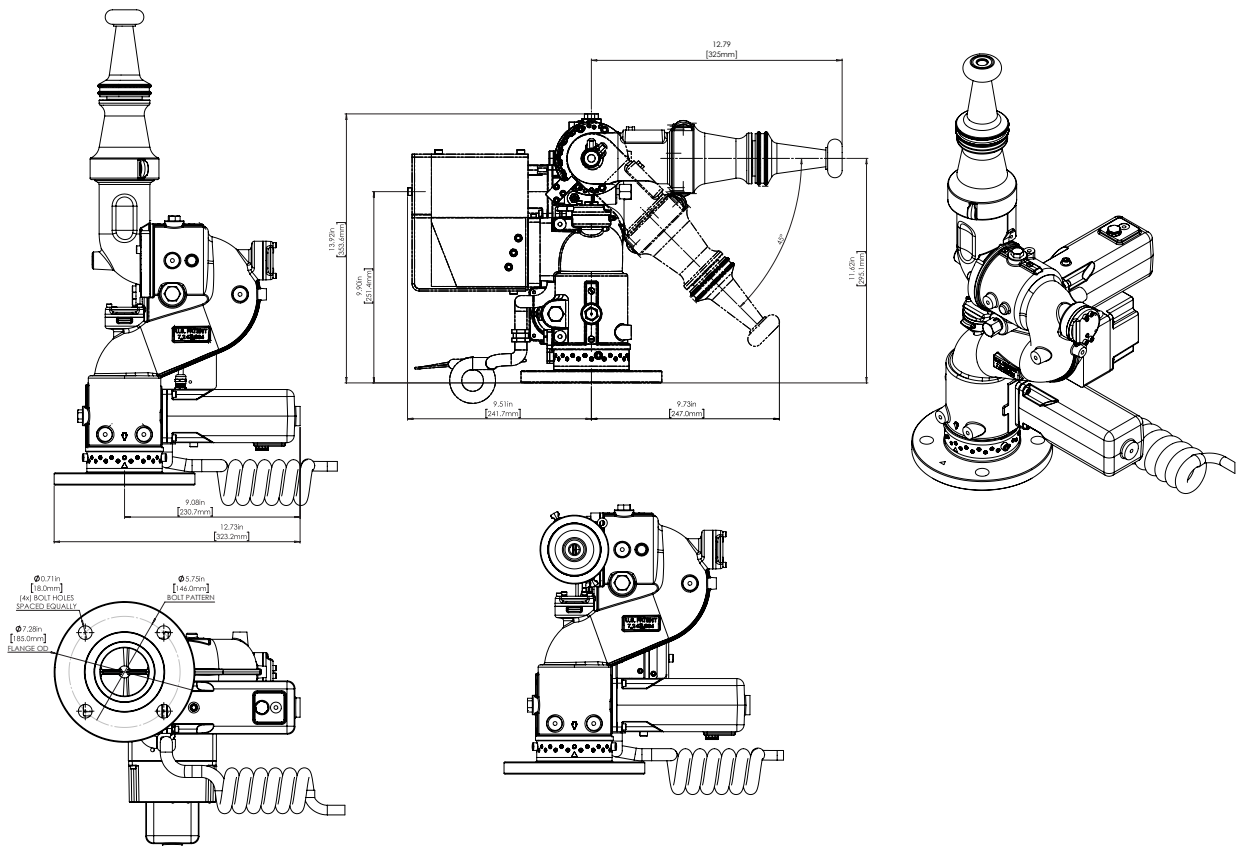
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## HydroBlast Remote Control Monitor System

### ORDERING INFORMATION

0007100MG	HydroBlast Monitor; with industrial seal for mining applications; 700GPM (2550 LPM) max flow rate ; 250 psi (17.2 bar) max pressure; programmable travel speeds; vertical, horizontal and oscillation travels; programmable and mechanical end stops; absolute position sensing; -45° to +90° (135°) max vertical travel; 350° max horizontal travel; 12VVDC heavy duty brush motors; 2.5 NPT female inlet; 2.5" NHT male outlet; marine grade silicon bronze construction; hardwired input devices via CAN bus J1939;
0007100MG	HydroBlast Monitor; with industrial seal for mining applications; 700GPM (2550 LPM) max flow rate; 250 psi (17.2 bar) max pressure; programmable travel speeds; vertical, horizontal and oscillation travels; programmable and mechanical end stops; absolute position sensing; -45° to +90° (135°) max vertical travel; 350° max horizontal travel; 12VVDC heavy duty brushless motors; 2.5 NPT female inlet; 2.5" NHT male outlet; marine grade silicon bronze construction; hardwired input devices via CAN bus J1939;
00594002	HydroBlast Smooth bore nozzle; 2.5" Female NHT; 60-120GPM (76-454 LPM) constant flow rate in Straight stream flow pattern; 250psi (17.2 bar) maximum pressure; marine grade brass construction
28254001	Hydroblast CAN to Ethernet IP and Modbus TCP gateway; 300mA@24VDC input; -13° F to 70° F (-25° C to 70° C) operating temperature; IP20/ NEMA 1 enclosure
81891001	HydroBlast Gateway enclosure
24738001	HydroBlast monitor protective cage for mining chute applications
81914001	HydroBlast Remote Control Unit; 10-inch touch screen modular expandable enables control of up to 10 monitors at the same time; programable oscillation and speed control; learn feature enables creation of wash recipes via joystick which can be saved and rerun with autoactivate feature; autoactivate feature enabling activation of saved configuration via asset tag; networkable with Cat 5e copper or Fiber (multimode or single mode) connectivity

### Drawings



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## HydroBlast Remote Control Monitor System

### Drawings

